### Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

### Sacramento River Basin

| RD1001 Reclamation District No. 1001 Nicolaus | Overall LMA<br>Rating  | Total LMA<br>Miles            |                | Threshold Perce<br>Rated Miles are p |                  |                    |                    |         |          |               |
|---|------------------------|-------------------------------|----------------|--------------------------------------|------------------|--------------------|--------------------|---------|----------|---------------|
|   | M *                    | 43.74                         | Rating is M    | instead of A.                        |                  |                    |                    |         |          |               |
|   |                        | Maintena                      | ce Deficiency  |                                      | nance Deficiency |                    | Enforc             | cement  | Design 8 | System scence |
| Rated Item                                    | M Miles                | U Miles                       | M + 4U Miles   | Threshold %                          | M Miles          | U Miles            | M Miles            | U Miles |          |               |
| Earthen Levee                                 |                        |                               |                |                                      |                  |                    |                    |         |          |               |
| Vegetation                                    | 0.05                   |                               | 0.05           | 0.11%                                | 0.08             | 0.09               |                    |         |          |               |
| Trim / Thin Trees                             | 0.06                   |                               | 0.06           | 0.14%                                |                  |                    |                    |         |          |               |
| Encroachments                                 | 0.03                   |                               | 0.03           | 0.07%                                | 3.05             | 0.17               |                    |         |          |               |
| Animal Control                                | 0.01                   |                               | 0.01           | 0.02%                                |                  |                    |                    |         |          |               |
| Slope Stability                               | 0.09                   |                               | 0.09           | 0.21%                                |                  |                    |                    |         |          |               |
| Erosion / Bank Caving                         | 0.01                   |                               | 0.01           | 0.02%                                |                  |                    |                    |         |          |               |
| Supplemental                                  |                        |                               |                |                                      |                  |                    |                    |         |          |               |
| 2017 USACE Erosion Survey, DRAFT              | 1.21                   | 0.41                          | 2.85           | 6.52%                                |                  |                    |                    |         |          |               |
| DWR UCIP Field Study                          |                        |                               |                |                                      | 0.24             | 0.02               |                    |         |          |               |
| DWR UCIP LMA Responsibility                   |                        |                               |                |                                      |                  |                    |                    |         |          |               |
| LMA Totals:                                   | 1.46                   | 0.41                          | 3.10           | 7.09% *                              | 3.37             | 0.28               | 0.00               | 0.00    |          |               |
| Unit No. 01 Yankee Slough RB                  | Overall Unit<br>Rating | Total Unit<br>Miles           |                |                                      |                  |                    |                    |         |          |               |
| RD1001  | Α                      | 4.12                          |                |                                      |                  |                    |                    |         |          |               |
|   |                        | Maintenance Deficiency Enforc |                |                                      | cement           | Design &<br>Obsole | System             |         |          |               |
| Rated Item                                    | M Miles                | U Miles                       | M + 4U Miles   | Threshold %                          | M Miles          | U Miles            | M Miles            |         |          |               |
| Earthen Levee                                 |                        |                               |                |                                      |                  |                    |                    |         |          |               |
| Vegetation                                    |                        |                               |                |                                      | 0.06             | 0.01               |                    |         |          |               |
| Encroachments                                 |                        |                               |                |                                      | 0.08             | 0.05               |                    |         |          |               |
| Supplemental                                  |                        |                               |                |                                      |                  |                    |                    |         |          |               |
| DWR UCIP Field Study                          |                        |                               |                |                                      | 0.01             |                    |                    |         |          |               |
| Unit Totals:                                  | 0.00                   | 0.00                          | 0.00           | 0.00%                                | 0.15             | 0.06               | 0.00               | 0.00    |          |               |
| Unit No. 02 Yankee Slough LB                  | Overall Unit<br>Rating | Total Unit<br>Miles           |                |                                      |                  |                    |                    |         |          |               |
| RD1001  | A                      | 3.65                          |                |                                      |                  |                    |                    |         |          |               |
|   |                        | Maintena                      | nce Deficiency |                                      | Enforc           | ement              | Design &<br>Obsole | System  |          |               |
| Rated Item                                    | M Miles                | U Miles                       | M + 4U Miles   | Threshold %                          | M Miles          | U Miles            | M Miles            |         |          |               |
| Earthen Levee                                 |                        |                               |                | 7                                    |                  |                    |                    |         |          |               |
| Vegetation                                    |                        |                               |                |                                      | 0.01             | 0.01               |                    |         |          |               |
| Encroachments                                 |                        |                               |                |                                      | 0.34             | 0.01               |                    |         |          |               |
| Supplemental                                  |                        |                               | I              | I                                    |                  |                    |                    |         |          |               |
| 2017 USACE Erosion Survey, DRAFT              | 0.03                   |                               | 0.03           | 0.82%                                |                  |                    |                    |         |          |               |
| DWR UCIP Field Study                          |                        |                               |                |                                      | 0.02             |                    |                    |         |          |               |
| DWR UCIP LMA Responsibility                   |                        |                               |                |                                      |                  |                    |                    |         |          |               |
| Unit Totals:                                  | 0.03                   | 0.00                          | 0.03           | 0.82%                                | 0.37             | 0.02               | 0.00               | 0.00    |          |               |

### Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

### Sacramento River Basin (cont.)

| Unit No. 03 Bear River LB          | Overall Unit           | Total Unit<br>Miles |                             |                   |  |          |             |           |
|------------------------------------|------------------------|---------------------|-----------------------------|-------------------|--|----------|-------------|-----------|
| PD4004                             | Rating                 | 12.58               | -                           |                   |  |          |             |           |
| RD1001                             | A                      |                     | D. C                        |                   |  |          | Design 8    | & System  |
| Rated Item                         | M Miles                | U Miles             | mce Deficiency M + 4U Miles | Threshold %       | M Miles                                  | U Miles  |             | scence    |
| Earthen Levee                      | W Willes               | O WIIIOS            | W T 40 WIIICS               | Till Colloid 70   | IVI IVIIICO                              | O WIIICO | IVI IVIIICO | O IVIIIOS |
| Vegetation                         | 0.05                   |                     | 0.05                        | 0.40%             |  |          |             |           |
| Trim / Thin Trees                  | 0.02                   |                     | 0.02                        | 0.16%             |  |          |             |           |
| Encroachments                      |                        |                     |                             |                   | 1.72                                     | 0.01     |             |           |
| Slope Stability                    | 0.02                   |                     | 0.02                        | 0.16%             |  |          |             |           |
| Erosion / Bank Caving              | 0.01                   |                     | 0.01                        | 0.08%             |  |          |             |           |
| Supplemental                       |                        |                     |                             |                   |  | 1        |             |           |
| 2017 USACE Erosion Survey, DRAFT   | 0.12                   |                     | 0.12                        | 0.95%             |  |          |             |           |
| DWR UCIP Field Study               |                        |                     |                             |                   | 0.03                                     |          |             |           |
| Unit Totals:                       | 0.22                   | 0.00                | 0.22                        | 1.75%             | 1.75                                     | 0.01     | 0.00        | 0.00      |
| Unit No. 04 Feather River LB       | Overall Unit<br>Rating | Total Unit<br>Miles |                             |                   |  |          |             |           |
|                                    | M                      | 13.27               | -                           |                   |  |          |             |           |
| RD1001                             |                        |                     | Maintenance Deficience      |                   | Enforcement                              |          | Design 8    | & System  |
| Rated Item                         |                        |                     |                             | <b>-</b> 1 1 110/ |  |          | Obsole      | scence    |
| Forthern Lavia                     | M Miles                | U Miles             | M + 4U Miles                | Threshold %       | M Miles                                  | U Miles  | M Miles     | U Miles   |
| Earthen Levee Vegetation           |                        |                     |                             |                   | 0.01                                     | 0.07     |             |           |
| Trim / Thin Trees                  | 0.03                   |                     | 0.03                        | 0.23%             | 0.01                                     | 0.07     |             |           |
| Encroachments                      | 0.02                   |                     | 0.02                        | 0.15%             | 0.13                                     | 0.01     |             |           |
| Animal Control                     | 0.01                   |                     | 0.01                        | 0.08%             | 0.10                                     | 0.01     |             |           |
| Slope Stability                    | 0.07                   |                     | 0.07                        | 0.53%             |  |          |             |           |
| Supplemental                       | 0.07                   |                     | 0.07                        | 0.0070            |  |          |             |           |
| 2017 USACE Erosion Survey, DRAFT   | 0.41                   | 0.41                | 2.05                        | 15.44%            |  |          |             |           |
| DWR UCIP Field Study               |                        |                     |                             |                   | 0.07                                     |          |             |           |
| Unit Totals:                       | 0.54                   | 0.41                | 2.18                        | 16.42%            | 0.21                                     | 0.08     | 0.00        | 0.00      |
| Unit No. 05 Natomas Cross Canal RB | Overall Unit<br>Rating | Total Unit<br>Miles |                             |                   | •  |          |             |           |
| RD1001                             | M                      | 5.39                |                             |                   |  |          |             |           |
|                                    |                        | Maintena            | nce Deficiency              |                   | Enforcement Design & System Obsolescence |          |             |           |
| Rated Item                         | M Miles                | U Miles             | M + 4U Miles                | Threshold %       | M Miles                                  |          | M Miles     |           |
| Earthen Levee                      |                        |                     |                             |                   |  |          |             |           |
| Encroachments                      |                        |                     |                             |                   | 0.28                                     |          |             |           |
| Supplemental                       | 1                      |                     | 1                           |                   |  |          |             |           |
| 2017 USACE Erosion Survey, DRAFT   | 0.65                   |                     | 0.65                        | 12.06%            |  |          |             |           |
| DWR UCIP Field Study               |                        |                     |                             |                   | 0.04                                     |          |             |           |
| Unit Totals:                       | 0.65                   | 0.00                | 0.65                        | 12.06%            | 0.32                                     | 0.00     | 0.00        | 0.00      |

### Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

### Sacramento River Basin (cont.)

| Unit No. 06 East Side Canal RB | Overall Unit<br>Rating | Total Unit<br>Miles |                |             |             |         |                                 |         |
|--------------------------------|------------------------|---------------------|----------------|-------------|-------------|---------|---------------------------------|---------|
| RD1001                         | Α                      | 4.74                |                |             |             |         |                                 |         |
| Rated Item                     |                        | Maintena            | nce Deficiency |             | Enforcement |         | Design & System<br>Obsolescence |         |
| Rated item                     | M Miles                | U Miles             | M + 4U Miles   | Threshold % | M Miles     | U Miles | M Miles                         | U Miles |
| Earthen Levee                  |                        |                     |                |             |             |         |                                 |         |
| Trim / Thin Trees              | 0.01                   |                     | 0.01           | 0.21%       |             |         |                                 |         |
| Encroachments                  | 0.01                   |                     | 0.01           | 0.21%       | 0.50        | 0.09    |                                 |         |
| Supplemental                   |                        |                     |                |             |             |         |                                 |         |
| DWR UCIP Field Study           |                        |                     |                |             | 0.07        | 0.02    |                                 |         |
| Unit Totals:                   | 0.02                   | 0.00                | 0.02           | 0.42%       | 0.57        | 0.11    | 0.00                            | 0.00    |

### **LMA District Cover Sheet**

Fall 2018 Levee Inspection Results

### **Reclamation District No. 1001 Nicolaus**

|  | Spring<br>(March - May) | Summer **<br>(June - August) | Fall (September - November) | Winter ** (December - February) |  |  |  |  |
|--|-------------------------|------------------------------|-----------------------------|---------------------------------|--|--|--|--|
| † Overall LMA Rating (Fall Only)   |                         |                              |                             |                                 |  |  |  |  |
| ** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.  * Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.   |                         |                              |                             |                                 |  |  |  |  |
| † SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.  FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified |                         |                              |                             |                                 |  |  |  |  |
|  |                         |                              | nded to be an indiction     |                                 |  |  |  |  |
| Comments   |                         |                              |                             |                                 |  |  |  |  |
|  |                         |                              |                             |                                 |  |  |  |  |
|  |                         |                              |                             |                                 |  |  |  |  |
|  |                         |                              |                             |                                 |  |  |  |  |
|  |                         |                              |                             |                                 |  |  |  |  |
|  |                         |                              |                             |                                 |  |  |  |  |

#### **Unit Cover Sheet**

Fall 2018 Levee Inspection Results

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles |
|---------------------------|-------|------------|
| Unit No. 01 Yankee Slough | Right | 4.12       |

|                                     | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
|-------------------------------------|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) |                         |                           | Α                              |                                 |
| Date of Inspection                  | 4/3/2018 - 4/3/2018     |                           | 10/9/2018 - 10/9/2018          |                                 |
| DWR Inspector                       | Sterling York           |                           | Sterling York                  |                                 |
| Accompanied By                      | Joe Henderson<br>RD1001 |                           | Joe Henderson<br>RD1001        |                                 |

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

### **Levee Inspection Report By Mile - Fall 2018**

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Yankee Slough | Right | 4.12       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start   |          | Rating **      | Α        | Issue No.  |        | 1            |   |  |  |
|--|----------|----------------|----------|------------|--------|--------------|---|--|--|
| LM End   |          | Issue Type +   | Ma       | Location * |        | N/A          |   |  |  |
| Catagonia Earthen Levee  |          |                |          | GPS La     | atitud | le/Longitude |   |  |  |
| Category   |          |                |          | Start      |        | End          |   |  |  |
| Item   | Emergeno | y Supplies &   |          |            | 0      |              | 0 |  |  |
| item   | Equipmen | it             |          |            | 0      |              | 0 |  |  |
| DWR ID   | DWR_RD1  | 001_01_s _ 201 | 2_1      | '          |        |              |   |  |  |
|  |          | Comn           | nent Cod | de         |        |              |   |  |  |
|  |          |                |          |            |        |              |   |  |  |
|  |          |                |          |            |        |              |   |  |  |
|  |          | Inspecto       | or Comm  | nent       |        |              |   |  |  |
| The LMA has flood fight supplies on hand at their district office. |          |                |          |            |        |              |   |  |  |
|  |          |                |          |            |        |              |   |  |  |
|  |          |                |          |            |        |              |   |  |  |
|  |          |                |          |            |        |              |   |  |  |

No Photos

| LM Start |           | Rating **      | Α        | Issue No.  |        | 2            |   |
|----------|-----------|----------------|----------|------------|--------|--------------|---|
| LM End   |           | Issue Type +   | Ma       | Location * |        | N/A          |   |
| Category | Earthen L | evee           |          | GPS La     | atitud | le/Longitude |   |
| Calegory |           |                |          | Start      |        | End          |   |
| Item     | Flood Pre | paredness &    | Training |            | 0      |              | 0 |
| item     |           |                |          |            | ٥      |              | 0 |
| DWR ID   | DWR_RD1   | 001_01_s _ 201 | 2_2      |            |        |              |   |
|          |           | Comn           | nent Cod | le         |        |              |   |

No Photos

Inspector Comment

The LMA participates in the flood fight class put on by RD784 and DWR annually.

| LM Start  |                          | Rating **      | Α           | Issue No.     |       | 3     |   |  |
|-----------|--------------------------|----------------|-------------|---------------|-------|-------|---|--|
| LM End    |                          | Issue Type +   | Ma          | Location *    | N/A   |       |   |  |
| Category  | GPS La                   | atitud         | e/Longitude |               |       |       |   |  |
| Category  |                          |                |             | Start         |       | End   |   |  |
| Itom      | Operations & Maintenance |                |             |               | 0     |       | 0 |  |
| item      | Manuals                  |                |             |               |       |       | 0 |  |
| DWR ID    | DWR_RD1                  | 001_01_s _ 201 | 2_3         |               |       |       |   |  |
|           |                          | Comn           | nent Cod    | de            |       |       |   |  |
|           |                          |                |             |               |       |       |   |  |
|           |                          |                |             |               |       |       |   |  |
|           | Inspector Comment        |                |             |               |       |       |   |  |
| The LMA I | nas a copy               | of the O&M n   | nanuals     | at the distri | ct of | fice. |   |  |

No Photos

| Location        |                   |
|-----------------|-------------------|
| LS: Land Side   | N/A: Not Applicab |
| MC · Motor Cido |                   |

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence En: Enforcement

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Yankee Slough | Right | 4.12       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | <b>0.01</b> Rating ** A   |              | Issue No. |                        | 11   |              |  |
|----------|---------------------------|--------------|-----------|------------------------|------|--------------|--|
| LM End   | 4.11                      | Issue Type + | Ма        | Location *             |      | LS           |  |
| Category | Earthen L                 | evee         |           | GPS Latitude/Longitude |      |              |  |
| Calegory |                           |              |           | Start                  |      | End          |  |
| Item     | Vegetatio                 | n            |           | 38.9801                | 82 ° | 38.970629°   |  |
| пеш      |                           |              |           | -121.4702              | 63°  | -121.534464° |  |
| DWR ID   | DWR_RD1001_01_f _ 2018_11 |              |           |                        |      | ·            |  |
|          | Comment Code              |              |           |                        |      |              |  |

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

The annual vegetation is well maintained, Fall 2018.

### Photo 1 of 1 : FA\_2018\_RD1001\_36\_11\_20181113\_00020.jpg



View looking upstream landside at the well maintained annual vegetation, Fall 2018.

| LM Start | 0.01                      | Rating **    | Α  | Issue No.  |                        | 12           |  |
|----------|---------------------------|--------------|----|------------|------------------------|--------------|--|
| LM End   | 4.11                      | Issue Type + | Ма | Location * |                        | WS           |  |
| Category | Earthen L                 | arthen Levee |    |            | GPS Latitude/Longitude |              |  |
| Calegory |                           |              |    |            |                        | End          |  |
| Item     | Vegetatio                 | Vegetation   |    |            | 32°                    | 38.970629°   |  |
| пеш      |                           |              |    |            | 3°                     | -121.534464° |  |
| DWR ID   | DWR_RD1001_01_f _ 2018_12 |              |    |            | ·                      |              |  |

#### Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

### Inspector Comment

The annual vegetation is well maintained, Fall 2018.

### Photo 1 of 1: FA\_2018\_RD1001\_36\_12\_20181113\_00019.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

| LM Start | 0.37                             | <b>0.37</b> Rating ** U |    |                        | sue No. 26 |               |  |
|----------|----------------------------------|-------------------------|----|------------------------|------------|---------------|--|
| LM End   | 0.37                             | Issue Type +            | En | Location * LS          |            | LS            |  |
| Catagory | Category Earthen Levee           |                         |    | GPS Latitude/Longitude |            |               |  |
| Calegory | ory                              |                         |    | Start                  |            | End           |  |
| Item     | Encroach                         | Encroachments           |    |                        | 94°        | 38.976294 °   |  |
| пеш      |                                  |                         |    | -121.47452             | 24 °       | -121.474524 ° |  |
| DWR ID   | DWR ID DWR_RD1001_01_f _ 2016_26 |                         |    |                        |            |               |  |
|          | Comment Code                     |                         |    |                        |            |               |  |
|          |                                  |                         |    |                        |            |               |  |

PR : Prunings

Inspector Comment



View of pruning's on landside toe looking upstream, Fall 2018.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Yankee Slough | Right | 4.12       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

|   |                   |                |          |            | 1      |             |   |
|---|-------------------|----------------|----------|------------|--------|-------------|---|
| LM Start                                | 0.40              | Rating **      | С        | Issue No.  |        | 9           |   |
| LM End                                  | 0.40              | Issue Type +   | En       | Location * |        | WS          |   |
| Category                                | Earthen L         | evee           |          | GPS L      | atitud | e/Longitude |   |
| Category                                |                   |                |          | Start      |        | End         |   |
| Item                                    | Encroach          | ments          |          | 38.9759    | 66°    | 38.975966   | 0 |
| пеш                                     |                   |                |          | -121.4750  | 003°   | -121.475003 | 0 |
| DWR ID                                  | DWR_RD1           | 001_01_f _ 201 | 3_9      |            |        |             |   |
|   |                   | Comn           | nent Cod | de         |        |             |   |
| PR : Pruni                              | ngs               |                |          |            |        |             |   |
|   |                   |                |          |            |        |             |   |
|   | Inspector Comment |                |          |            |        |             |   |
| Prunning's have been burned, Fall 2018. |                   |                |          |            |        |             |   |
|   |                   |                |          |            |        |             |   |
|   |                   |                |          |            |        |             |   |

No Photos

Rating \*\* Issue No. 0.42 LM Start Μ 16 LM End 0.42 Issue Type + Location \* LS Earthen Levee GPS Latitude/Longitude Category Start End Encroachments 38.975782° 38.975782° Item -121.475321 ° -121.475321 ° DWR ID DWR\_RD1001\_01\_s \_ 2015\_16 Comment Code DE: Debris Inspector Comment



View lookinf upstream at concrete debris on landside slope.

| LM Start  | 0.47              | Rating **      | С        | Issue No.              |     | 17           |  |
|---|-------------------|----------------|----------|------------------------|-----|--------------|--|
| LM End  | 0.47              | Issue Type +   | En       | Location *             | WS  |              |  |
| Category  | Earthen L         | evee           |          | GPS Latitude/Longitude |     |              |  |
| Category  |                   |                |          | Start                  |     | End          |  |
| Item  | Encroachments     |                |          |                        | 66° | 38.975466°   |  |
| пеш   |                   |                |          | -121.4760              | 79° | -121.476079° |  |
| DWR ID  | DWR_RD1           | 001_01_s _ 201 | 8_17     |                        |     |              |  |
|   |                   | Comn           | nent Cod | de                     |     |              |  |
| PR : Pruni  | ngs               |                |          |                        |     |              |  |
|   |                   |                |          |                        |     |              |  |
|   | Inspector Comment |                |          |                        |     |              |  |
| Pruning's and debris off levee toe have been burned, Fall 2018. |                   |                |          |                        |     |              |  |
|   |                   |                |          |                        |     |              |  |

### **Levee Inspection Report By Mile - Fall 2018**

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Yankee Slough | Right | 4.12       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                                | 0.51                         | Rating **    | М        | Issue No.  |       | 27            |  |
|---|------------------------------|--------------|----------|------------|-------|---------------|--|
| LM End                                  | 0.51                         | Issue Type + | En       | Location * |       | LS            |  |
| Category                                | Catagoria Earthen Levee      |              |          |            |       | e/Longitude   |  |
| Category                                |                              |              |          | Start      |       | End           |  |
| Item                                    | Encroachi                    | ments        |          | 38.9753    | ° 80  | 38.975308°    |  |
| пеш                                     |                              |              |          | -121.4767  | '31 ° | -121.476731 ° |  |
| DWR ID                                  | ID DWR_RD1001_01_s _ 2017_27 |              |          |            |       |               |  |
|   |                              | Comn         | nent Cod | de         |       |               |  |
| PR : Pruni                              | ngs                          |              |          |            |       |               |  |
|   | Inspector Comment            |              |          |            |       |               |  |
| Debris/pruning's at landside levee toe. |                              |              |          |            |       |               |  |
|   |                              |              |          |            |       |               |  |
|   |                              |              |          |            |       |               |  |
|   |                              |              |          |            |       |               |  |



View of debris/pruning's at landside levee toe, Spring 2017.

| LM Start | 0.95                             | <b>0.95</b> Rating ** M |    | Issue No.              |     | 15           |  |
|----------|----------------------------------|-------------------------|----|------------------------|-----|--------------|--|
| LM End   | 0.95                             | Issue Type +            | En | Location *             |     | LS           |  |
| Category | Earthen Levee                    |                         |    | GPS Latitude/Longitude |     |              |  |
| Calegory |                                  |                         |    | Start                  |     | End          |  |
| Item     | Vegetation                       |                         |    | 38.9745                | 69° | 38.974569°   |  |
| item     |                                  |                         |    | -121.4848              | 15° | -121.484815° |  |
| DWR ID   | DWR ID DWR_RD1001_01_s _ 2012_15 |                         |    |                        |     |              |  |
|          | Comment Code                     |                         |    |                        |     |              |  |

V6 : Landscaping

Inspector Comment

Landscaping needs to be removed from levee toe.



View of the landscaping on the landside levee slope, Fall 2017.

| LM Start    | 0.98  | Rating **      | M        | Issue No.  |     | 18           |   |
|-------------|---|----------------|----------|------------|-----|--------------|---|
| LM End      | 0.98  | Issue Type +   | En       | Location * | LS  |              |   |
| Category    | Earthen Levee                                   |                |          |            |     | le/Longitude |   |
| Calegory    |   |                |          | Start      |     | End          |   |
| Item        | Encroach  | ments          |          | 38.9742    | 84° | 38.974284    | c |
| item        |   |                |          | -121.4853  | 62° | -121.485362  | c |
| DWR ID      | DWR_RD1   | 001_01_f _ 201 | 8_18     |            |     |              |   |
|             |   | Comn           | nent Cod | de         |     |              |   |
| PR : Pruni  | ngs   |                |          |            |     |              | _ |
|             |   |                |          |            |     |              |   |
|             | Inspector Comment                               |                |          |            |     |              |   |
| Pruning's i | Pruning's need to be removed off the levee toe. |                |          |            |     |              |   |

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Yankee Slough | Right | 4.12       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start  | 1.29      | Rating **      | U        | Issue No.   |     | 7            |  |
|---|-----------|----------------|----------|-------------|-----|--------------|--|
| LM End  | 1.29      | Issue Type +   | En       | Location *  |     | LS           |  |
| Category  | evee      | GPS La         | atitud   | e/Longitude |     |              |  |
| Calegory  |           |                | Start    |             | End |              |  |
| Item  | Encroachi | ments          |          | 38.9726     | 55° | 38.972655°   |  |
| item  |           |                |          | -121.4906   | 43° | -121.490643° |  |
| DWR ID  | DWR_RD1   | 001_01_f _ 201 | 4_7      |             |     |              |  |
|   |           | Comn           | nent Cod | de          |     |              |  |
| PR : Pruni                                      | ngs       |                |          |             |     |              |  |
|   |           |                |          |             |     |              |  |
|   |           | Inspecto       | or Comm  | nent        |     |              |  |
| Pruning's need to be removed off the levee toe. |           |                |          |             |     |              |  |
|   |           |                |          |             |     |              |  |
|   |           |                |          |             |     |              |  |



This photo was taken of the landside looking upstream at prunings stacked up at the levee toe.

| LM Start | 1.53         | Rating **      | М      | Issue No.  |              | 28            |  |  |
|----------|--------------|----------------|--------|------------|--------------|---------------|--|--|
| LM End   | 1.53         | Issue Type +   | En     | Location * |              |               |  |  |
| Category | Suppleme     | ental          | GPS La | tituc      | le/Longitude |               |  |  |
| Category |              | Start          |        | End        |              |               |  |  |
| Item     | DWR UC       | IP Field Study |        | 38.97062   | 22 °         | 38.970622°    |  |  |
| пеш      |              |                |        | -121.4941  | 71 °         | -121.494171 ° |  |  |
| DWR ID   | 22526        |                |        |            |              |               |  |  |
|          | Comment Code |                |        |            |              |               |  |  |

#### Inspector Comment

FS\_ID:42016 DS\_ID:22526 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 05/22/2013 Dense vegetation should be removed.

(P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 36-inch standpipe and service pole at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/22/2013

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Yankee Slough | Right | 4.12       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                     | 2.01          | Rating **      | U        | Issue No.  |     | 22           |  |
|------------------------------|---------------|----------------|----------|------------|-----|--------------|--|
| LM End                       | 2.01          | Issue Type +   | En       | Location * |     | LS           |  |
| 0-4                          | Earthen Levee |                |          |            |     | e/Longitude  |  |
| Category                     |               |                |          | Start      |     | End          |  |
| Item                         | Encroachi     | ments          |          | 38.9710    | 93° | 38.971093°   |  |
| item                         |               |                |          | -121.5028  | 95° | -121.502895° |  |
| DWR ID                       | DWR_RD1       | 001_01_f _ 201 | 6_22     |            |     |              |  |
|                              |               | Comn           | nent Cod | de         |     |              |  |
| PR : Pruni                   | ngs           |                |          |            |     |              |  |
|                              |               |                |          |            |     |              |  |
| Inspector Comment            |               |                |          |            |     |              |  |
| Prunings need to be removed. |               |                |          |            |     |              |  |
|                              |               |                |          |            |     |              |  |



View of pruning's on the landside toe looking upstream. Fall 2017.

Photo 1 of 1: FA\_2018\_RD1001\_36\_6\_20180918\_00004.jpg

| LM Start                        | 2.22         | Rating **    | М      | Issue No.   |     | 6             |  |  |
|---------------------------------|--------------|--------------|--------|-------------|-----|---------------|--|--|
| LM End                          | 2.22         | Issue Type + | En     | Location *  | LS  |               |  |  |
| Category                        | evee         | GPS La       | atitud | e/Longitude |     |               |  |  |
| Calegory                        | ategory      |              |        |             |     | End           |  |  |
| Item                            | Encroach     | ments        |        | 38.9693     | 04° | 38.969304°    |  |  |
| item                            |              |              |        | -121.5060   | 50° | -121.506050 ° |  |  |
| DWR ID DWR_RD1001_01_f _ 2014_6 |              |              |        |             |     |               |  |  |
|                                 | Comment Code |              |        |             |     |               |  |  |

PR: Prunings

#### Inspector Comment

Pruning's still at levee toe need to be removed.

This photo was taken of the landside looking upstream at prunings stacked up at the levee toe.

Photo 1 of 1: FA\_2018\_RD1001\_36\_14\_20180918\_00008.jpg

| LM Start                         | 2.97      | Rating **      | U        | Issue No.  |        | 14           |  |
|----------------------------------|-----------|----------------|----------|------------|--------|--------------|--|
| LM End                           | 2.97      | Issue Type +   | En       | Location * |        | LS           |  |
| Category                         | Earthen L | evee           |          | GPS La     | atitud | e/Longitude  |  |
| Category                         |           |                | Start    |            | End    |              |  |
| Item                             | Encroach  | ments          |          | 38.9666    | 551°   | 38.966651 °  |  |
| item                             |           |                |          | -121.5189  | 940°   | -121.518940° |  |
| DWR ID                           | DWR_RD1   | 001_01_s _ 201 | 8_14     |            |        |              |  |
|                                  |           | Comn           | nent Cod | de         |        |              |  |
| PR : Pruni                       | ngs       |                |          |            |        |              |  |
|                                  |           | Inspecto       | or Comm  | nent       |        |              |  |
| Remove pruning's from levee toe. |           |                |          |            |        |              |  |
|                                  |           |                |          |            |        |              |  |



View looking upstream landside of pruning's that have been places at levee toe.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

### **Levee Inspection Report By Mile - Fall 2018**

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Yankee Slough | Right | 4.12       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start   | 3.09   | Rating **      | Α        | Issue No.    |        | 19           |  |  |
|------------|--|----------------|----------|--------------|--------|--------------|--|--|
| LM End     | 3.09   | Issue Type +   | Ma       | Location *   |        | LS           |  |  |
| Category   | Earthen L  | evee           |          | GPS La       | atitud | e/Longitude  |  |  |
| Calegory   |  |                |          | Start        |        | End          |  |  |
| Item       | Trim / Thi   | n Trees        |          | 38.9656      | 60°    | 38.965660°   |  |  |
| пеш        |  |                |          | -121.5205    | 48°    | -121.520548° |  |  |
| DWR ID     | DWR ID DWR_RD1001_01_s _ 2016_19                                   |                |          |              |        |              |  |  |
|            |  | Comn           | nent Cod | de           |        |              |  |  |
| T1: Trim t | rees to at I   | east five feet | above g  | round level. |        |              |  |  |
|            |  |                |          |              |        |              |  |  |
|            |  | Inspecto       | or Comm  | nent         |        |              |  |  |
| Limbs are  | Limbs are removed from stump for access and visibility, Fall 2018. |                |          |              |        |              |  |  |
|            |  |                |          |              |        |              |  |  |
|            |  |                |          |              |        |              |  |  |
|            |  |                |          |              |        |              |  |  |

| LM Start | 3.09 | Rating **    | Α  | Issue No.  | 19 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 3.09 | Issue Type + | Ma | Location * | LS        |

Photo 1 of 2: FA\_2018\_RD1001\_36\_19\_20181113\_00021.jpg

View of a tree that limbs are trimmed and trunk sprayed to prevent any future growth, Fall 2018.

Photo 2 of 2: FA\_2018\_RD1001\_36\_19\_20180918\_00013.jpg



View of a tree that need limbs trimmed. Fall 2017.

| LM Start   | 3.12                            | Rating **    | М        | Issue No.  |        | 5            |  |
|------------|---------------------------------|--------------|----------|------------|--------|--------------|--|
| LM End     | 3.17                            | Issue Type + | En       | Location * |        | LS           |  |
| Category   | Earthen L                       | evee         |          | GPS La     | atitud | le/Longitude |  |
| Category   |                                 |              |          | Start      |        | End          |  |
| Item       | Vegetation                      |              |          |            |        | 38.965705°   |  |
| пеш        |                                 |              |          | -121.5210  | 23°    | -121.522098° |  |
| DWR ID     | DWR ID DWR_RD1001_01_s _ 2012_5 |              |          |            |        |              |  |
|            |                                 | Comn         | nent Cod | de         |        |              |  |
| V6 : Lands | caping                          |              |          |            |        |              |  |
|            |                                 | Inspecto     | or Comn  | nent       |        |              |  |
|            |                                 | •            |          |            |        |              |  |
|            |                                 |              |          |            |        |              |  |
|            |                                 |              |          |            |        |              |  |
|            |                                 |              |          |            |        |              |  |



Unit 1 Landscaping on levee slope. L/S

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

### **Levee Inspection Report By Mile - Fall 2018**

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Yankee Slough | Right | 4.12       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM End                          |            | Rating **    | M        | Issue No.     |        | 5 (cont)      |  |
|---------------------------------|------------|--------------|----------|---------------|--------|---------------|--|
| LIVI LIIG                       | 3.17       | Issue Type + | En       | Location *    |        | LS            |  |
| Category                        | Earthen L  | evee         |          | GPS La        | atitud | e/Longitude   |  |
| Calegory                        |            |              |          | Start         |        | End           |  |
| Item                            | Vegetation | า            |          | 38.9656       | 63°    | 38.965705°    |  |
| item                            |            |              |          | -121.521023 ° |        | -121.522098 ° |  |
| DWR ID DWR_RD1001_01_s _ 2012_5 |            |              |          |               |        |               |  |
|                                 |            | Comn         | nent Cod | de            |        |               |  |
| V6 : Landso                     | caping     |              |          |               |        |               |  |
|                                 |            |              |          |               |        |               |  |
|                                 |            | Inspecto     | or Comm  | nent          |        |               |  |
|                                 |            |              |          |               |        |               |  |
|                                 |            |              |          |               |        |               |  |
|                                 |            |              |          |               |        |               |  |



View of landscaping on landside slope.

| LM Start               | 3.13                             | Rating **    | М  | Issue No.              | 20  |              |  |
|------------------------|----------------------------------|--------------|----|------------------------|-----|--------------|--|
| LM End                 | 3.17                             | Issue Type + | En | Location *             | LS  |              |  |
| Category Earthen Levee |                                  |              |    | GPS Latitude/Longitude |     |              |  |
| Calegory               |                                  |              |    | Start                  |     | End          |  |
| Item                   | Encroachments                    |              |    | 38.965663°             |     | 38.965672°   |  |
| item                   |                                  |              |    | -121.5212              | 67° | -121.521919° |  |
| DWR ID                 | DWR ID DWR_RD1001_01_f _ 2016_20 |              |    |                        |     |              |  |
| Comment Code           |                                  |              |    |                        |     |              |  |

FE: Fence

#### Inspector Comment

Land owner has installed an unpermitted fence on the landside levee slope.

### Photo 1 of 1: FA\_2018\_RD1001\_36\_20\_20180918\_00014.jpg



View of a fence on the landside levee slope looking upstream.

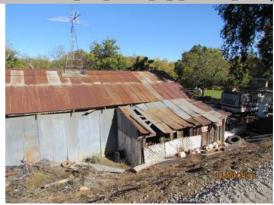
| LM Start               | 3.19     | Rating **      | U                      | Issue No.  |      | 8           |   |
|------------------------|----------|----------------|------------------------|------------|------|-------------|---|
| LM End                 | 3.19     | Issue Type +   | En                     | Location * | LS   |             |   |
| Category Earthen Levee |          |                | GPS Latitude/Longitude |            |      |             |   |
| Category               |          | Start          |                        | End        |      |             |   |
| Item                   | Encroach | ments          |                        | 38.96569   | 94°  | 38.965694   | ٥ |
| Item                   |          |                |                        | -121.52242 | 24 ° | -121.522424 | ٥ |
| DWR ID                 | DWR_RD1  | 001_01_f _ 201 | 5_8                    |            |      |             |   |
| Comment Code           |          |                |                        |            |      |             |   |

### BU: Building

#### Inspector Comment

Remove debris and building to allow visibility and access to landside levee toe.

# Photo 1 of 1: FA\_2018\_RD1001\_36\_8\_20180918\_00006.jpg



View of the shed at the landside levee toe.

| * Location                          | ** Rating                |   | + Issue Type                      |
|-------------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |
| WS: Water Side                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |
| CP · Crown                          | II · I Inaccontable      | AMM · Accontable but Monitor & Maintain | En · Enforcement                  |

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Yankee Slough | Right | 4.12       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                        | 3.21      | Rating **    | U        | Issue No.     |             | 4            |  |
|---------------------------------|-----------|--------------|----------|---------------|-------------|--------------|--|
| LM End                          | 3.21      | Issue Type + | En       | Location *    |             | LS           |  |
| Earthen Levee                   |           |              | GPS L    | atitud        | e/Longitude |              |  |
| Category                        |           |              |          | Start         |             | End          |  |
| Item                            | Vegetatio | n            |          | 38.9656       | 99°         | 38.965699°   |  |
| пеш                             |           |              |          | -121.522790 ° |             | -121.522790° |  |
| DWR ID DWR_RD1001_01_f _ 2015_4 |           |              |          |               |             |              |  |
|                                 |           | Comn         | nent Cod | de            |             |              |  |
| V6 : Lands                      | scaping   |              |          |               |             |              |  |
|                                 |           |              |          |               |             |              |  |
|                                 |           | Inspecto     | or Comm  | nent          |             |              |  |
|                                 |           |              |          |               |             |              |  |
|                                 |           |              |          |               |             |              |  |
|                                 |           |              |          |               |             |              |  |
|                                 |           |              |          |               |             |              |  |

Photo 1 of 1 : FA\_2018\_RD1001\_36\_4\_20180918\_00001.jpg

1.1/04/2015

View of the landscaping at the landside levee toe.

| LM Start               | 3.31                             | Rating **    | С        | Issue No.              |            | 13           |  |  |
|------------------------|----------------------------------|--------------|----------|------------------------|------------|--------------|--|--|
| LM End                 | 3.31                             | Issue Type + | En       | Location *             |            | LS           |  |  |
| Category Earthen Levee |                                  |              |          | GPS Latitude/Longitude |            |              |  |  |
| Calegory               |                                  |              | Start    |                        | End        |              |  |  |
| Item                   | Encroach                         | ments        | 38.96554 | 12°                    | 38.965542° |              |  |  |
| пеш                    |                                  |              |          | -121.52462             | 24 °       | -121.524624° |  |  |
| DWR ID                 | DWR ID DWR_RD1001_01_f _ 2018_13 |              |          |                        |            |              |  |  |
|                        | Comment Code                     |              |          |                        |            |              |  |  |
| DD · Druni             | PD · Pruninge                    |              |          |                        |            |              |  |  |

PR: Prunings

Inspector Comment

Prunning's at this location have been burned, Fall 2018.

### **Unit Cover Sheet**

#### Fall 2018 Levee Inspection Results

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles |
|---------------------------|------|------------|
| Unit No. 02 Yankee Slough | Left | 3.65       |

|                                     | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
|-------------------------------------|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) |                         |                           | A                              |                                 |
| Date of Inspection                  | 4/3/2018 - 4/3/2018     |                           | 10/9/2018 - 10/9/2018          |                                 |
| DWR Inspector                       | Sterling York           |                           | Sterling York                  |                                 |
| Accompanied By                      | Joe Henderson<br>RD1001 |                           | Joe Henderson<br>RD1001        |                                 |

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                        | 0.00         | Rating **    | Α      | Issue No.    |             | 7          |  |
|---------------------------------|--------------|--------------|--------|--------------|-------------|------------|--|
| LM End                          | 3.64         | Issue Type + | Ma     | Location *   |             | LS         |  |
| Category Earthen Levee          |              |              | GPS La | atitud       | e/Longitude |            |  |
| Calegory                        |              |              |        | Start        |             | End        |  |
| ltom                            | Vegetatio    | n            |        | 38.9712      | 21 °        | 38.965811° |  |
| ltem S                          |              | -121.4740    | 27°    | -121.533591° |             |            |  |
| DWR ID DWR_RD1001_02_f _ 2018_7 |              |              |        |              |             |            |  |
|                                 | Comment Code |              |        |              |             |            |  |

V1: Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

The annual vegetation is well maintained, Fall 2018.

#### Photo 1 of 1: FA\_2018\_RD1001\_35\_7\_20181113\_00028.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2018.

| LM Start                        | 0.00      | Rating **    | Α      | Issue No.  |              | 8            |  |  |
|---------------------------------|-----------|--------------|--------|------------|--------------|--------------|--|--|
| LM End                          | 3.64      | Issue Type + | Ма     | Location * |              | WS           |  |  |
| Category                        | Earthen L | evee         | GPS La | tituc      | le/Longitude |              |  |  |
| Category                        |           |              | Start  |            | End          |              |  |  |
| Item                            | Vegetatio | n            |        | 38.9712    | 22 °         | 38.965811°   |  |  |
| пеш                             |           |              |        |            |              | -121.533591° |  |  |
| DWR ID DWR_RD1001_02_f _ 2018_8 |           |              |        |            |              |              |  |  |
|                                 | 0         |              |        |            |              |              |  |  |

#### Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

### Inspector Comment

The annual vegetation is well maintained, Fall 2018.

### Photo 1 of 1: FA\_2018\_RD1001\_35\_8\_20181113\_00029.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2018.

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 0.24         | Rating **     | М     | Issue No.              |      | 53           |
|----------|--------------|---------------|-------|------------------------|------|--------------|
| LM End   | 0.24         | Issue Type +  | En    | Location *             |      |              |
| Category | Supplemental |               |       | GPS Latitude/Longitude |      |              |
| Calegory | alegory      |               | Start |                        | End  |              |
| Item     | DWR UCI      | P Field Study |       | 38.97410               | )3 ° | 38.974103°   |
| пеш      |              |               |       | -121.47594             | 18°  | -121.475948° |
| DWR ID   | 22536        |               |       |                        |      |              |

### Inspector Comment

Comment Code

FS\_ID:41673 DS\_ID:22536 EP\_NO: 5562

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/23/2013 Pipe appears abandoned and if so should be done so properly. WS pipe plugged with stopper. Seems abandoned. Only abandoned pump base found. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 6-inch coated steel irrigation pipe through the levee, 3.5 feet below the crown. Metal cutoff collar placed on the pipe at the center of the levee crown. Pump was removed. Pump base on the waterside (WS) berm. Shutoff valve on the discharge side of the pump. Foot valve below water on the intake side of the pump. Siphon breaker on the landside (LS) shoulder. Pipe discharges into underground irrigation system on the LS. Power pole and meter box, 10 feet from the landward toe. 1.5-inch flexible conduit through levee, 3.5 feet below the crown. (Pump and irrigation pipe authorized under Permit No. 5562, 1966 - Samual B. Single). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/23/2013

| LM Start | 0.24 | Rating **    | М  | Issue No.  | 53 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 0.24 | Issue Type + | En | Location * |           |



Levee Crown: dense vegetation on levee crown and sides.

Photo 2 of 3: UCIP\_FA\_2018\_41673\_22744.jpg



WS- plugged pipe and pump base.

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 0.24                               | Rating **     | М  | Issue No.  | 53 (cont) |              |  |
|----------|------------------------------------|---------------|----|------------|-----------|--------------|--|
| LM End   | 0.24                               | Issue Type +  | En | Location * |           |              |  |
| Category | Supplemental GPS Latitude/Longitud |               |    |            |           | le/Longitude |  |
| Category | Zategory                           |               |    | Start      |           | End          |  |
| Item     | DWR UCI                            | P Field Study |    | 38.97410   | 3°        | 38.974103°   |  |
| пеш      |                                    |               |    | -121.47594 | 8°        | -121.475948° |  |
| DWR ID   | 22536                              |               |    |            |           |              |  |
|          | Comment Code                       |               |    |            |           |              |  |

#### Inspector Comment

FS\_ID:41673 DS\_ID:22536 EP\_NO: 5562

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/23/2013 Pipe appears abandoned and if so should be done so properly. WS pipe plugged with stopper. Seems abandoned. Only abandoned pump base found. (P. Amatya - DWR

UCIP)

FIELD\_STRUCT\_DESC: 6-inch coated steel irrigation pipe through the levee, 3.5 feet below the crown. Metal cutoff collar placed on the pipe at the center of the levee crown. Pump was removed. Pump base on the waterside (WS) berm. Shutoff valve on the discharge side of the pump. Foot valve below water on the intake side of the pump. Siphon breaker on the landside (LS) shoulder. Pipe discharges into underground irrigation system on the LS. Power pole and meter box, 10 feet from the landward toe. 1.5-inch flexible conduit through levee, 3.5 feet below the crown. (Pump and irrigation pipe authorized under Permit No. 5562, 1966 - Samual B. Single). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/23/2013

Photo 3 of 3: UCIP\_FA\_2018\_41673\_22743.jpg

LS- only pipe air vent found on levee slope.

| LM Start | 0.32       | Rating **      | С        | Issue No.  |        | 14           |   |
|----------|------------|----------------|----------|------------|--------|--------------|---|
| LM End   | 0.32       | Issue Type +   | Ma       | Location * |        | LS           |   |
| Category | Earthen L  | evee           |          | GPS La     | atitud | le/Longitude |   |
| Calegory |            |                |          | Start      |        | End          |   |
| Item     | Trim / Thi | n Trees        |          | 38.9745    | 42°    | 38.974542    | 0 |
| пеш      |            |                |          | -121.4774  | 38°    | -121.477438  | 0 |
| DWR ID   | DWR_RD1    | 001_02_s _ 201 | 8_14     |            |        |              |   |
|          |            | Comn           | nent Cod | le         |        |              |   |

T1 : Trim trees to at least five feet above ground level.

#### Inspector Comment

Tree has its limbs trimmed for access and visibility, Fall 2018.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 0.47    | Rating **     | М                      | Issue No.  | ie No. 5 |               |
|----------|---------|---------------|------------------------|------------|----------|---------------|
| LM End   | 0.47    | Issue Type +  | En                     | Location * |          |               |
| Category |         |               | GPS Latitude/Longitude |            |          |               |
| Calegory |         |               |                        | Start      |          | End           |
| Item     | DWR UCI | P Field Study |                        | 38.97432   | 9°       | 38.974329°    |
| пеш      |         |               |                        | -121.48004 | 3°       | -121.480043 ° |
| DWR ID   | 22529   |               |                        |            |          | ·             |

### Inspector Comment

Comment Code

FS\_ID:50740 DS\_ID:22529 EP\_NO: 2281

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 07/13/2016 According to district president Joe Henderson, pipe was removed 2-3 years ago. No permit for removal found or evidence of pipe or its removal found. (K. Fazel - UCIP)05/23/2013:- leaky pipe end and erosion on WS.- cracked dirt mound on LS - seems not been used for some time. (P. Amatya - DWR)

FIELD\_STRUCT\_DESC: \*REMOVED\* 7-inch steel irrigation pipe through the levee, 1.9 feet below the crown. Portable pump mounted on the bank during the summer months. Control valve on the waterside (WS). Steel plate bolted on the WS end during the winter months. Pipe discharges into a 30-inch concrete standpipe at the landside (LS) toe. (Pump and irrigation pipe authorized under Permit No. 2281, 1956 - Willard R. Brown). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 7/13/2016

 LM Start
 0.47
 Rating \*\*
 M
 Issue No.
 54 (cont)

 LM End
 0.47
 Issue Type +
 En
 Location \*



WS- end of the pipe.

#### Photo 2 of 3: UCIP FA 2018 50740 22752.jpg



WS- seems abandoned or not been used for some time.

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 0.47     | Rating **           | М     | Issue No.  |                        | 54 (cont)     |  |
|----------|----------|---------------------|-------|------------|------------------------|---------------|--|
| LM End   | 0.47     | Issue Type +        | En    | Location * |                        |               |  |
| Category | Suppleme | Supplemental        |       |            | GPS Latitude/Longitude |               |  |
| Calegory |          |                     | Start |            | End                    |               |  |
| Item     | DWR UCI  | WR UCIP Field Study |       | 38.97432   | 29°                    | 38.974329 °   |  |
| пеш      |          |                     |       | -121.48004 | 3°                     | -121.480043 ° |  |
| DWR ID   | 22529    |                     |       |            |                        |               |  |

#### Inspector Comment

Comment Code

FS\_ID:50740 DS\_ID:22529 EP\_NO: 2281

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 07/13/2016 According to district president Joe Henderson, pipe was removed 2-3 years ago. No permit for removal found or evidence of pipe or its removal found. (K. Fazel - UCIP)05/23/2013:- leaky pipe end and erosion on WS.- cracked dirt mound on LS - seems not been used for some time. (P. Amatya - DWR)

FIELD\_STRUCT\_DESC: \*REMOVED\* 7-inch steel irrigation pipe through the levee, 1.9 feet below the crown. Portable pump mounted on the bank during the summer months. Control valve on the waterside (WS). Steel plate bolted on the WS end during the winter months. Pipe discharges into a 30-inch concrete standpipe at the landside (LS) toe. (Pump and irrigation pipe authorized under Permit No. 2281, 1956 - Willard R. Brown). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 7/13/2016



WS- due to water leak, soil around pipe eroded.

| LM Start | 0.53                      | Rating **              | М  | Issue No.  | 19   |              |  |
|----------|---------------------------|------------------------|----|------------|------|--------------|--|
| LM End   | 0.53                      | Issue Type +           | En | Location * | LS   |              |  |
| Category | evee                      | GPS Latitude/Longitude |    |            |      |              |  |
| Calegory |                           |                        |    | Start      |      | End          |  |
| Item     | Encroach                  | ments                  |    | 38.97437   | 71 ° | 38.974371°   |  |
| пеш      |                           |                        |    | -121.48122 | 23 ° | -121.481223° |  |
| DWR ID   | DWR_RD1001_02_f _ 2016_19 |                        |    |            |      |              |  |
|          | Comment Code              |                        |    |            |      |              |  |

#### AV: Abandoned vehicles

#### Inspector Comment

Remove boat parked at the landside levee toe, Fall 2018.

#### Photo 1 of 2: FA\_2018\_RD1001\_35\_19\_20181113\_00030.jpg



View of a boat at the landside levee toe. Fall 2018.

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start   | 0.53                    | Rating **      | М        | Issue No.    |      | 19 (cont)     |  |
|--|-------------------------|----------------|----------|--------------|------|---------------|--|
| LM End   | 0.53                    | Issue Type +   | En       | Location *   |      | LS            |  |
| Category   | Catagoria Earthen Levee |                |          |              |      | le/Longitude  |  |
| Calegory   |                         |                |          | Start        |      | End           |  |
| ltem   | Encroachi               | ments          |          | 38.9743      | 71 ° | 38.974371 °   |  |
| пеш  |                         |                |          | -121.481223° |      | -121.481223 ° |  |
| DWR ID   | DWR_RD1                 | 001_02_f _ 201 | 6_19     |              |      |               |  |
|  |                         | Comn           | nent Cod | de           |      |               |  |
| AV : Aban  | doned veh               | icles          |          |              |      |               |  |
| Inspector Comment  |                         |                |          |              |      |               |  |
| Remove boat parked at the landside levee toe, Fall 2018. |                         |                |          |              |      |               |  |

Photo 2 of 2 : FA\_2018\_RD1001\_35\_19\_20180918\_00011.jpg

View of a boat at the landside levee toe. Fall 2017.

| LM Start                         | 0.54     | Rating **              | М     | Issue No.  | 21   |              |
|----------------------------------|----------|------------------------|-------|------------|------|--------------|
| LM End                           | 0.54     | Issue Type +           | En    | Location * |      | LS           |
| Category                         | evee     | GPS Latitude/Longitude |       |            |      |              |
| Calegory                         |          |                        | Start |            | End  |              |
| Item                             | Encroach | ments                  |       | 38.9743    | 48 ° | 38.974348°   |
| пеш                              |          |                        |       | -121.4814  | 98°  | -121.481498° |
| DWR ID DWR_RD1001_02_f _ 2016_21 |          |                        |       |            |      |              |
| Comment Code                     |          |                        |       |            |      |              |

TA : Tank

#### Inspector Comment

Tank at landside levee toe need to be removed from easement.



View looking downstream landside, equipment has been moved but fuel tank remains.

| LM Start      | 0.63              | Rating **      | М        | Issue No.     |        | 16           |  |
|---------------|-------------------|----------------|----------|---------------|--------|--------------|--|
| LM End        | 0.63              | Issue Type +   | En       | Location *    |        | LS           |  |
| Earthen Levee |                   |                |          | GPS L         | atitud | e/Longitude  |  |
| Category      |                   |                |          | Start         |        | End          |  |
| Item          | Vegetatio         | n              |          | 38.9741       | 98°    | 38.974198°   |  |
| пеш           |                   |                |          | -121.483150 ° |        | -121.483150° |  |
| DWR ID        | DWR_RD1           | 001_02_s _ 201 | 2_16     |               |        |              |  |
|               |                   | Comn           | nent Cod | de            |        |              |  |
| V6 : Lands    | caping            |                |          |               |        |              |  |
|               |                   |                |          |               |        |              |  |
|               | Inspector Comment |                |          |               |        |              |  |
|               |                   |                |          |               |        |              |  |
|               |                   |                |          |               |        |              |  |



View of the landscaping at the landside levee toe.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                                   | 0.78      | Rating **              | М        | Issue No.     |      | 22            |  |  |
|--|-----------|------------------------|----------|---------------|------|---------------|--|--|
| LM End                                     | 0.78      | Issue Type +           | En       | Location *    |      | LS            |  |  |
| Catagony                                   | evee      | GPS Latitude/Longitude |          |               |      |               |  |  |
| Category                                   |           |                        |          | Start         |      | End           |  |  |
| Item                                       | Encroachi | ments                  |          | 38.9735       | 609° | 38.973509°    |  |  |
| item                                       |           |                        |          | -121.485668 ° |      | -121.485668 ° |  |  |
| DWR ID                                     | DWR_RD1   | 001_02_f _ 201         | 6_22     |               |      |               |  |  |
|  |           | Comn                   | nent Cod | de            |      |               |  |  |
| DE : Debri                                 | s         |                        |          |               |      |               |  |  |
|  |           |                        |          |               |      |               |  |  |
|  |           | Inspecto               | or Comm  | nent          |      |               |  |  |
| Debris has been piled up again, Fall 2018. |           |                        |          |               |      |               |  |  |
|  |           |                        |          |               |      |               |  |  |
|  |           |                        |          |               |      |               |  |  |



View of debris pile on the landside levee slope looking downstream.

| LM Start | 1.21                      | Rating **    | М  | Issue No.  | 29                     |              |  |  |
|----------|---------------------------|--------------|----|------------|------------------------|--------------|--|--|
| LM End   | 1.21                      | Issue Type + | En | Location * |                        | LS           |  |  |
| Catagory | Earthen Levee             |              |    |            | GPS Latitude/Longitude |              |  |  |
| Category |                           |              |    | Start      |                        | End          |  |  |
| Item     | Encroach                  | ments        |    | 38.97063   | 35 °                   | 38.970635°   |  |  |
| пеш      |                           |              |    |            | 76°                    | -121.492476° |  |  |
| DWR ID   | DWR_RD1001_02_f _ 2017_29 |              |    |            |                        |              |  |  |
|          | Comment Code              |              |    |            |                        |              |  |  |

DE : Debris

#### Inspector Comment

Stumps and debris need to be removed, Fall 2018.



View looking downstream landside at pruning's and stumps that need to be removed from levee toe.

| LM Start  | 1.31              | Rating **      | М        | Issue No.   |     | 12           |  |
|---|-------------------|----------------|----------|-------------|-----|--------------|--|
| LM End  | 1.31              | Issue Type +   | En       | Location *  |     | WS           |  |
| Category  | evee              | GPS La         | atitud   | e/Longitude |     |              |  |
| Category  | Category          |                |          |             |     | End          |  |
| Item  | Encroach          | ments          |          | 38.969830°  |     | 38.969830°   |  |
| item  | <b>"</b>          |                |          |             | 94° | -121.493994° |  |
| DWR ID  | DWR_RD1           | 001_02_s _ 201 | 5_12     |             |     |              |  |
|   |                   | Comn           | nent Cod | de          |     |              |  |
| MA : Mater  | rial              |                |          |             |     |              |  |
|   |                   |                |          |             |     |              |  |
|   | Inspector Comment |                |          |             |     |              |  |
| Sand pile needs to be remove from waterside slope, Fall 2018. |                   |                |          |             |     |              |  |



View of a pile of soil on the waterside slope looking downstream.

\*\* Rating

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Monitor & Maintain M: Maintain M: Maintain M: Minimally Acceptable CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Maintain M: Maintain M: Maintain M: Maintain M: Minimally Acceptable M: M: Monitor & Maintain M: Enforcement

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start              | 1.33    | Rating **                  | М                      | Issue No.  |      | 4            |
|-----------------------|---------|----------------------------|------------------------|------------|------|--------------|
| LM End                | 1.36    | Issue Type +               | Ma                     | Location * |      | WS           |
| Category Supplemental |         |                            | GPS Latitude/Longitude |            |      |              |
| Calegory              |         |                            |                        | Start      |      | End          |
| Item                  |         | 2017 USACE Erosion Survey, |                        |            | 40 ° | 38.969640°   |
| пеш                   | DRAFT   |                            |                        | -121.4943  | 27°  | -121.494829° |
| DWR ID                | DWR_RD1 | 001_02_f _ 201             | 8_4                    |            |      | ·            |

No Photos

Inspector Comment

Comment Code

2017 Site ID: YAS 1.7 L

Status: Eroding

2017 Field Notes: No observed change.

Site History: 2011 - New erosion site. Steep eroding slope. Fairly old

scarp with vegetation growth.

| LM Start               | 1.47                      | Rating **    | С                      | Issue No.  |      | 15           |  |
|------------------------|---------------------------|--------------|------------------------|------------|------|--------------|--|
| LM End                 | 1.70                      | Issue Type + | En                     | Location * |      | LS           |  |
| Category Earthen Levee |                           |              | GPS Latitude/Longitude |            |      |              |  |
| Category               |                           |              |                        | Start      |      | End          |  |
| Item                   | Encroachments             |              |                        | 38.9698    | 38°  | 38.970226°   |  |
| item                   |                           |              |                        | -121.4969  | 64 ° | -121.501092° |  |
| DWR ID                 | DWR_RD1001_02_s _ 2018_15 |              |                        |            |      | ·            |  |

Comment Code

TR: Tree or limb

Inspector Comment

Orchard trees that have been cut down have been removed, Fall 2018.

No Photos

| LM Start               | 1.70                      | Rating **    | М                      | Issue No.  | 23           |     |  |
|------------------------|---------------------------|--------------|------------------------|------------|--------------|-----|--|
| LM End                 | 1.70                      | Issue Type + | En                     | Location * | LS           |     |  |
| Category Earthen Levee |                           |              | GPS Latitude/Longitude |            |              |     |  |
|                        |                           |              |                        | Start      |              | End |  |
| Encroachments          |                           |              | 38.9702                | 60°        | 38.970260°   |     |  |
| item                   |                           |              | -121.5012              | 46°        | -121.501246° |     |  |
| DWR ID                 | DWR_RD1001_02_f _ 2016_23 |              |                        |            |              |     |  |
|                        | Comment Code              |              |                        |            |              |     |  |

TA: Tank

Inspector Comment

Two tanks that are at the landside levee toe and should be moved from the easement.



View of two tanks that are at the landside levee toe.

\* Location LS : Land Side WS: Water Side CR : Crown

N/A: Not Applicable

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma: Maintenance Deficiency Ob : Design & System Obsolescence

En: Enforcement

### **Levee Inspection Report By Mile - Fall 2018**

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                         | 1.71          | Rating **    | M        | Issue No.     |            | 18           |
|----------------------------------|---------------|--------------|----------|---------------|------------|--------------|
| LM End                           | 1.71          | Issue Type + | En       | Location *    | LS         |              |
| Category                         | Earthen Levee |              |          | GPS La        | atitud     | e/Longitude  |
| Calegory                         |               |              |          | Start         |            | End          |
| Encroachments ltem               |               |              | 38.9702  | 64°           | 38.970264° |              |
| пеш                              | nem           |              |          | -121.501343 ° |            | -121.501343° |
| DWR ID DWR_RD1001_02_s _ 2016_18 |               |              |          |               |            |              |
|                                  |               | Comn         | nent Cod | de            |            |              |
| BU : Buildi                      | ng            |              |          |               |            |              |
|                                  |               |              |          |               |            |              |
|                                  |               | Inspecto     | or Comm  | nent          |            |              |
|                                  |               |              |          |               |            |              |
|                                  |               |              |          |               |            |              |
|                                  |               |              |          |               |            |              |
|                                  |               |              |          |               |            |              |



Shed at landside toe.

| LM Start               | 1.74    | Rating **      | U                      | Issue No.  |     | 10           |  |
|------------------------|---------|----------------|------------------------|------------|-----|--------------|--|
| LM End                 | 1.74    | Issue Type +   | En                     | Location * |     | LS           |  |
| Category Earthen Levee |         |                | GPS Latitude/Longitude |            |     |              |  |
| Calegory               |         |                |                        | Start      |     | End          |  |
| Vegetation             |         | n              |                        |            | 53° | 38.970353°   |  |
| пеш                    |         |                |                        | -121.5019  | 35° | -121.501935° |  |
| DWR ID                 | DWR_RD1 | 001_02_s _ 201 | 2_10                   |            |     |              |  |
| Comment Code           |         |                |                        |            |     |              |  |
| V6 : Lands             | caping  |                |                        |            |     |              |  |

Inspector Comment



RD 1001 Unit 2 - L/S -Landscaping - Trees

| LM Start           | 1.75          | Rating **      | U          | Issue No.     |            | 11           |  |
|--------------------|---------------|----------------|------------|---------------|------------|--------------|--|
| LM End             | 1.75          | Issue Type +   | En         | Location *    |            | LS           |  |
| Category           | Earthen Levee |                |            | GPS La        | atitud     | e/Longitude  |  |
| Category           |               | Start          |            | End           |            |              |  |
| ltem Encroachments |               |                | 38.970347° |               | 38.970347° |              |  |
| item               | nem -         |                |            | -121.502027 ° |            | -121.502027° |  |
| DWR ID             | DWR_RD1       | 001_02_s _ 201 | 2_11       |               |            |              |  |
|                    |               | Comn           | nent Cod   | de            |            |              |  |
| BU : Buildi        | ng            |                |            |               |            |              |  |
|                    |               |                |            |               |            |              |  |
|                    |               | Inspecto       | or Comm    | nent          |            |              |  |
|                    |               |                |            |               |            |              |  |
|                    |               |                |            |               |            |              |  |



RD 1001 Unit 2 - L/S -Building @ toe.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

### **Levee Inspection Report By Mile - Fall 2018**

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 1.88                     | Rating **    | М        | Issue No.              |      | 6             |
|----------|--------------------------|--------------|----------|------------------------|------|---------------|
| LM End   | 1.88                     | Issue Type + | En       | Location *             |      | LS            |
| Catagony | Category Earthen Levee   |              |          | GPS Latitude/Longitude |      |               |
| Calegory |                          |              |          |                        |      | End           |
| Item     | Encroach                 | ments        |          | 38.9694                | 89°  | 38.969489°    |
| пеш      |                          |              |          | -121.5041              | 55 ° | -121.504155 ° |
| DWR ID   | DWR_RD1001_02_f _ 2015_6 |              |          |                        |      |               |
|          |                          | Comn         | nent Coo | de                     |      |               |

TR: Tree or limb

Inspector Comment

Large stump at the landside levee toe should be removed, Fall 2018.



View of large stump at the landside levee toe.

Photo 1 of 1: FA\_2018\_RD1001\_35\_13\_20180918\_00006.jpg

| LM Start               | 1.89                      | Rating **    | М                      | Issue No.  |     | 13           |  |
|------------------------|---------------------------|--------------|------------------------|------------|-----|--------------|--|
| LM End                 | 1.89                      | Issue Type + | En                     | Location * |     | LS           |  |
| Category Earthen Levee |                           |              | GPS Latitude/Longitude |            |     |              |  |
| Calegory               |                           |              |                        | Start      |     | End          |  |
| Item                   | Encroachments             |              |                        | 38.9694    | 23° | 38.969423°   |  |
| пеш                    |                           |              |                        | -121.5042  | 25° | -121.504225° |  |
| DWR ID                 | DWR_RD1001_02_f _ 2015_13 |              |                        |            |     |              |  |
|                        |                           | _            |                        |            |     |              |  |

Comment Code

TR: Tree or limb

#### Inspector Comment

Large stump at the landside levee toe should be removed, Fall 2018.



View of large stump at the landside levee toe.

| LM Start               | 1.90          | Rating **      | М   | Issue No.              |     | 5           |   |
|------------------------|---------------|----------------|-----|------------------------|-----|-------------|---|
| LM End                 | 1.90          | Issue Type +   | En  | Location *             | LS  |             |   |
| Category Earthen Levee |               |                |     | GPS Latitude/Longitude |     |             |   |
| Calegory               |               |                |     | Start                  |     | End         |   |
| Item                   | Encroachments |                |     | 38.9692                | 61° | 38.969261   | 0 |
| пеш                    |               |                |     | -121.5044              | 29° | -121.504429 | 0 |
| DWR ID                 | DWR_RD1       | 001_02_f _ 201 | 7_5 |                        |     |             |   |

TR: Tree or limb

#### Inspector Comment

Comment Code

Large stump at the landside levee toe should be removed. Fall 2018.

# Photo 1 of 1: FA\_2018\_RD1001\_35\_5\_20180918\_00001.jpg



View looking downstream landside at a large stump that needs to be removed.

Location Ma: Maintenance Deficiency LS: Land Side N/A: Not Applicable : Acceptable : Minimally Acceptable N : Not Inspected/Rated WS: Water Side C : Corrected Ob : Design & System Obsolescence A/W : Acceptable but Monitor & Maintain U : Unacceptable En: Enforcement

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                         | 2.28      | Rating **    | М        | Issue No.  |        | 52           |  |
|----------------------------------|-----------|--------------|----------|------------|--------|--------------|--|
| LM End                           | 2.52      | Issue Type + | En       | Location * |        | LS           |  |
| Category                         | Earthen L | evee         |          | GPS La     | atitud | e/Longitude  |  |
| Calegory                         |           |              |          | Start      |        | End          |  |
| Item                             | Encroach  | ments        |          | 38.9674    | 02°    | 38.967515°   |  |
| item                             |           |              |          | -121.5108  | 50°    | -121.515270° |  |
| DWR ID DWR_RD1001_02_s _ 2012_52 |           |              |          |            |        |              |  |
|                                  |           | Comn         | nent Cod | de         |        |              |  |
| DT : Ditch                       |           |              |          |            |        |              |  |
|                                  |           |              |          |            |        |              |  |
|                                  |           | Inspecto     | or Comm  | nent       |        |              |  |
|                                  |           |              |          |            |        |              |  |
|                                  |           |              |          |            |        |              |  |
|                                  |           |              |          |            |        |              |  |
|                                  |           |              |          |            |        |              |  |

Photo 1 of 1: FA\_2018\_RD1001\_35\_52\_20180918\_00018.jpg

View of landside irrigation ditch looking downstream.

| LM Start     | 2.28     | Rating **    | М          | Issue No.              | 55   |              |  |  |
|--------------|----------|--------------|------------|------------------------|------|--------------|--|--|
| LM End       | 2.28     | Issue Type + | Ма         | Location *             |      |              |  |  |
| Category     | Suppleme | ental        |            | GPS Latitude/Longitude |      |              |  |  |
| Category     |          |              |            | Start                  |      | End          |  |  |
| Item         | DWR UC   | IP LMA Respo | onsibility | 38.9674                | )3°  | 38.967403°   |  |  |
| item         |          |              |            | -121.5109              | 53 ° | -121.510953° |  |  |
| DWR ID 22543 |          |              |            |                        |      |              |  |  |
| Comment Code |          |              |            |                        |      |              |  |  |

### Inspector Comment

FS\_ID:14008 DS\_ID:22543 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside -

pits on pipe due to corrosion (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate and concrete Ushaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento

O&M Manual 141.1, August 1955, (Station 67+75)].

FS Date: 5/23/2013





WS- overview of waterside of the levee.

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start     | 2.28    | Rating **    | М          | Issue No.              |              | 55 (cont)  |  |
|--------------|---------|--------------|------------|------------------------|--------------|------------|--|
| LM End       | 2.28    | Issue Type + | Ма         | Location *             |              |            |  |
| Category     |         |              |            | GPS Latitude/Longitude |              |            |  |
| Calegory     |         |              |            | Start                  |              | End        |  |
| Item         | DWR UCI | P LMA Respo  | nsibility  | 38.96740               | 3°           | 38.967403° |  |
| пеш          |         |              | -121.51095 | 3°                     | -121.510953° |            |  |
| DWR ID 22543 |         |              |            |                        |              |            |  |

### Comment Code

#### Inspector Comment

FS\_ID:14008 DS\_ID:22543 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside -

pits on pipe due to corrosion (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate and concrete U-shaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento

O&M Manual 141.1, August 1955, (Station 67+75)].

FS Date: 5/23/2013

| LM Start | 2.28 | Rating **    | М  | Issue No.  | 55 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 2.28 | Issue Type + | Ма | Location * |           |

#### Photo 2 of 3: UCIP\_FA\_2018\_14008\_23107.jpg



WS- outfall pipe with flap gate in concrete wing wall.

### Photo 3 of 3: UCIP\_FA\_2018\_14008\_23106.jpg



LS- slide gate in inlet pipe structure

### **Levee Inspection Report By Mile - Fall 2018**

### **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 02 Yankee Slough | Left | 3.65       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start      | 3.58   | Rating **      | С        | Issue No.  |             | 24          |   |  |
|---------------|--|----------------|----------|------------|-------------|-------------|---|--|
| LM End        | 3.58   | Issue Type +   | Ma       | Location * |             | LS          |   |  |
| Earthen Levee |  |                | GPS La   | atitud     | e/Longitude |             |   |  |
| Category      |  | Start          |          | End        |             |             |   |  |
| Item          | Emergency Supplies &   |                |          | 38.9653    | 45°         | 38.965345   | 0 |  |
| пеш           | Equipment -121.532   |                |          |            | 15°         | -121.532615 | 0 |  |
| DWR ID        | DWR_RD1  | 001_02_f _ 201 | 6_24     |            |             |             |   |  |
|               |  | Comn           | nent Cod | de         |             |             |   |  |
|               |  |                |          |            |             |             |   |  |
|               |  |                |          |            |             |             |   |  |
|               |  | Inspecto       | or Comm  | nent       |             |             |   |  |
| Stockpiled    | Stockpiled flood fight material has been removed. Fall 2018. |                |          |            |             |             |   |  |
|               |  |                |          |            |             |             |   |  |
|               |  |                |          |            |             |             |   |  |

No Photos

\* Location

LS: Land Side N/A: Not Applicable WS: Water Side

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency

Ob : Design & System Obsolescence
En : Enforcement

### **Unit Cover Sheet**

Fall 2018 Levee Inspection Results

### **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles |
|------------------------|------|------------|
| Unit No. 03 Bear River | Left | 12.58      |

|                                     | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
|-------------------------------------|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) |                         |                           | Α                              |                                 |
| Date of Inspection                  | 4/3/2018 - 4/3/2018     |                           | 10/10/2018 - 10/10/2018        |                                 |
| DWR Inspector                       | Sterling York           |                           | Sterling York                  |                                 |
| Accompanied By                      | Joe Henderson<br>RD1001 |                           | Joe Henderson<br>RD1001        |                                 |

#### **Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start                         | 0.01      | Rating **    | Α     | Issue No.              |     | 14           |  |
|----------------------------------|-----------|--------------|-------|------------------------|-----|--------------|--|
| LM End                           | 12.57     | Issue Type + | Ma    | Location *             | LS  |              |  |
| Catagonia Earthen Levee          |           |              |       | GPS Latitude/Longitude |     |              |  |
| Category                         |           |              | Start |                        | End |              |  |
| Item                             | Vegetatio | n            |       | 39.0065                | 70° | 38.941182°   |  |
| пеш                              |           |              |       | -121.375115 °          |     | -121.567543° |  |
| DWR ID DWR_RD1001_03_f _ 2018_14 |           |              |       |                        |     |              |  |
| Comment Code                     |           |              |       |                        |     |              |  |

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

The annual vegetation is well maintained, Fall 2018.

# Photo 1 of 1 : FA\_2018\_RD1001\_37\_14\_20181113\_00041.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2018.

| LM Start                         | 0.01      | Rating **    | Α         | Issue No.  |              | 15         |  |
|----------------------------------|-----------|--------------|-----------|------------|--------------|------------|--|
| LM End                           | 12.57     | Issue Type + | Ма        | Location * | WS           |            |  |
| Category Earthen Levee           |           |              | GPS La    | tituc      | le/Longitude |            |  |
| Category                         |           |              |           | Start      |              | End        |  |
| Item                             | Vegetatio | Vegetation   |           | 39.0065    | 70°          | 38.941182° |  |
| пеш                              |           |              | -121.3751 | 16°        | -121.567543° |            |  |
| DWR ID DWR_RD1001_03_f _ 2018_15 |           |              |           |            |              |            |  |

#### Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

### Inspector Comment

The annual vegetation is well maintained, Fall 2018.

### Photo 1 of 1: FA\_2018\_RD1001\_37\_15\_20181113\_00042.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2018.

| LM Start               | 0.11      | Rating **      | С         | Issue No.  |               | 2          |
|------------------------|-----------|----------------|-----------|------------|---------------|------------|
| LM End                 | 0.11      | Issue Type +   | Ma        | Location * |               | CR         |
| Category Earthen Levee |           |                | GPS La    | titud      | e/Longitude   |            |
| Calegory               |           |                |           | Start      |               | End        |
| ltom                   | Slope Sta | bility         |           | 39.0065    | 69°           | 39.006569° |
| 2.11.2.10              |           |                | -121.3770 | 37°        | -121.377037 ° |            |
| DWR ID                 | DWR_RD1   | 001_03_f _ 201 | 3_2       |            |               |            |

#### Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Rutting caused by vehicles driving up the landward levee slope has been repaired and no sign of slope damage, Fall 2018.

| * Location                          | ** Rating                |   | + Issue Type                      |
|-------------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |
| WS: Water Side                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |
| CR : Crown                          | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start | 0.88         | Rating **     | М     | Issue No.              | 911 |              |  |  |
|----------|--------------|---------------|-------|------------------------|-----|--------------|--|--|
| LM End   | 0.88         | Issue Type +  | En    | Location *             |     |              |  |  |
| Category |              |               |       | GPS Latitude/Longitude |     |              |  |  |
| Category |              |               | Start |                        | End |              |  |  |
| Item     | DWR UCI      | P Field Study |       | 39.0065                | 08° | 39.006508°   |  |  |
| пеш      |              |               |       | -121.3910              | 86° | -121.391086° |  |  |
| DWR ID   | 22549        |               |       |                        |     |              |  |  |
|          | Comment Code |               |       |                        |     |              |  |  |

### Inspector Comment

FS\_ID:14128 DS\_ID:22549 EP\_NO: 958

Repair Type: Non-Urgent Crossing Status: Found

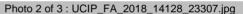
UCIP Comments: 05/21/2013 - slide gate on WS not found- needs

abandoned properly. (P. Amatya - DWR UCIP)
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch irrigation pipe of an unknown material through the levee, at an unknown depth. Slide gate on the waterside (WS) end. (24-inch irrigation pipe authorized under Permit No. 958, 1944 - Frank B. Lichty and Maggie Lichty). FS Date: 5/21/2013

| LM Start | 0.88 | Rating **    | М  | Issue No.  | 911 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 0.88 | Issue Type + | En | Location * |            |



WS- abandoned CMP on berm of the levee.





WS- abandoned CMP and depression around it.

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start | 0.88    | Rating **     | М                      | Issue No.  |              | 911 (cont) |
|----------|---------|---------------|------------------------|------------|--------------|------------|
| LM End   | 0.88    | Issue Type +  | En                     | Location * |              |            |
| Category |         |               | GPS Latitude/Longitude |            |              |            |
| Calegory |         |               |                        | Start      |              | End        |
| Item     | DWR UCI | P Field Study |                        | 39.00650   | 08°          | 39.006508° |
| пеш      |         |               | -121.39108             | 36°        | -121.391086° |            |
| DWR ID   | 22549   |               |                        |            |              | ·          |

### Inspector Comment

Comment Code

FS\_ID:14128 DS\_ID:22549 EP\_NO: 958

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/21/2013 - slide gate on WS not found- needs

abandoned properly. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch irrigation pipe of an unknown material through the levee, at an unknown depth. Slide gate on the waterside (WS) end. (24-inch irrigation pipe authorized under Permit No. 958, 1944 - Frank B. Lichty and Maggie Lichty).

FS Date: 5/21/2013



LS- no pipe or structure found on landside.

| LM Start                        | 1.16         | Rating **  | М            | Issue No.              | 3   |            |  |  |  |
|---------------------------------|--------------|--|--------------|------------------------|-----|------------|--|--|--|
| LM End                          | 1.78         | Issue Type +   | En           | Location *             | WS  |            |  |  |  |
| Category Earthen Levee          |              |  |              | GPS Latitude/Longitude |     |            |  |  |  |
| Category                        |              |  |              | Start                  |     | End        |  |  |  |
| Item                            | Encroach     | ments  |              | 39.0057                | 30° | 38.999534° |  |  |  |
| пеш                             |              | CPS Latitude Start 39.005730 ° -121.396111 ° CPD1001_03_s _ 2012_3 | -121.404395° |                        |     |            |  |  |  |
| DWR ID DWR_RD1001_03_s _ 2012_3 |              |  |              |                        |     |            |  |  |  |
|                                 | Comment Code |  |              |                        |     |            |  |  |  |

#### PO : Pole

#### Inspector Comment

Unpermitted Power Poles on the crown along waterside shoulder.

#### Photo 1 of 1: FA\_2018\_RD1001\_37\_3\_20180918\_00002.jpg



View of Power Poles along waterside shoulder.

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start | 1.85    | Rating **     | М  | Issue No.              |     | 912          |  |
|----------|---------|---------------|----|------------------------|-----|--------------|--|
| LM End   | 1.85    | Issue Type +  | En | Location *             |     |              |  |
| Category |         |               |    | GPS Latitude/Longitude |     |              |  |
| Calegory |         |               |    | Start                  |     | End          |  |
| Item     | DWR UCI | P Field Study |    | 38.99878               | 30° | 38.998780 °  |  |
| пеш      |         |               |    | -121.40532             | 22° | -121.405322° |  |
| DWR ID   | 22561   |               |    |                        |     |              |  |

#### Inspector Comment

Comment Code

FS ID:41727 DS\_ID:22561 EP\_NO: 4505

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/21/2013 Two small steel pipes sleeved through 30-inch CMP may be a compliance issue as slidegate cannot close.this may have been converted into drainage pipe (?)- big CMP

standpipe on WS. (P. Amatya - DWR UCIP)
FIELD\_STRUCT\_DESC: 30-inch concrete encased corrugated metal irrigation pipe through the levee, 11 feet below the crown. Concrete headwall and slide gate at the waterside (WS) toe, removed. Metal walkway on the WS to the slide gate. Pipe discharges into a 48-inch concrete standpipe at the landside (LS) toe. Two vertical pumps. (30inch concrete encased corrugated metal irrigation pipe authorized under Permit No. 4505, 1964 - State of California, Department of Public Works, Division of Highways). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 949+00), 30-inch steel pipe referenced]. FS Date: 5/21/2013

En

Location '

Rating \*\* Issue No LM Start 1.85 M

Issue Type +

1.85

LM End



WS- steel walkway, CMP and concrete headwall

#### Photo 2 of 3: UCIP\_FA\_2018\_41727\_23324.jpg



WS- CMP standpipe, pipes and concrete headwall.

Location + Issue Type Ma : Maintenance Deficiency LS: Land Side N/A: Not Applicable Acceptable N : Not Inspected/Rated WS: Water Side Minimally Acceptable C : Corrected Ob : Design & System Obsolescence CR : Crown U : Unacceptable A/W : Acceptable but Monitor & Maintain En: Enforcement

912 (cont)

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start | 1.85                      | Rating **    | М  | Issue No.  |                        | 912 (cont)   |  |  |
|----------|---------------------------|--------------|----|------------|------------------------|--------------|--|--|
| LM End   | 1.85                      | Issue Type + | En | Location * |                        |              |  |  |
| Category | Supplemental              |              |    |            | GPS Latitude/Longitude |              |  |  |
| Calegory |                           |              |    | Start      |                        | End          |  |  |
| ltom     | ltem DWR UCIP Field Study |              |    | 38.9987    | 30°                    | 38.998780°   |  |  |
| пеш      |                           |              |    | -121.4053  | 22°                    | -121.405322° |  |  |
| DWR ID   | 22561                     |              |    |            |                        |              |  |  |

#### Inspector Comment

Comment Code

FS\_ID:41727 DS\_ID:22561 EP\_NO: 4505

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/21/2013 Two small steel pipes sleeved through 30-inch CMP may be a compliance issue as slidegate cannot close.-this may have been converted into drainage pipe (?)- big CMP

standpipe on WS. (P. Amatya - DWR UCIP)
FIELD\_STRUCT\_DESC: 30-inch concrete encased corrugated metal irrigation pipe through the levee, 11 feet below the crown. Concrete headwall and slide gate at the waterside (WS) toe, removed. Metal walkway on the WS to the slide gate. Pipe discharges into a 48-inch concrete standpipe at the landside (LS) toe. Two vertical pumps. (30-inch concrete encased corrugated metal irrigation pipe authorized under Permit No. 4505, 1964 - State of California, Department of Public Works, Division of Highways). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 949+00), 30-inch steel pipe referenced].

FS Date: 5/21/2013



WS- two steel pipes are sleeved through 30-inch CMP.

| LM Start | 1.87                      | Rating **    | М  | Issue No.  |                        | 28          |   |  |
|----------|---------------------------|--------------|----|------------|------------------------|-------------|---|--|
| LM End   | 1.87                      | Issue Type + | Ма | Location * |                        | WS          |   |  |
| Category | Catagory Earthen Levee    |              |    |            | GPS Latitude/Longitude |             |   |  |
| Category |                           |              |    | Start      |                        | End         |   |  |
| Item     | Slope Sta                 | bility       |    | 38.99860   | 08°                    | 38.998608   | 0 |  |
| пеш      |                           |              |    | -121.40557 | 70°                    | -121.405570 | 0 |  |
| DWR ID   | DWR_RD1001_03_s _ 2013_28 |              |    |            |                        |             |   |  |

#### Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Continual damage to waterside slope caused by vehicles, suggest blocking access.

### Photo 1 of 1: FA\_2018\_RD1001\_37\_28\_20180918\_00018.jpg



Continual damage to waterside slope caused by vehicles.

\*Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

\*\* Rating
A: Acceptable
N: Not Inspected/Rated
N: Not Inspected/Rated
M: Not Inspected/Rated
C: Corrected
C: Corrected
D: Unacceptable
A/W: Acceptable but Monitor & Maintain

\*\* Rating
A: Issue Type
Ma: Maintenance Deficiency
Ob: Design & System Obsolescence
En: Enforcement

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start               | 1.87                      | Rating **    | A/W | Issue No.              |      | 29            |  |
|------------------------|---------------------------|--------------|-----|------------------------|------|---------------|--|
| LM End                 | 1.87                      | Issue Type + | Ма  | Location *             |      | LS            |  |
| Category Earthen Levee |                           |              |     | GPS Latitude/Longitude |      |               |  |
| Calegory               |                           |              |     | Start                  |      | End           |  |
| Item                   | Slope Stability           |              |     | 38.9986                | ° 80 | 38.998608°    |  |
| пеш                    |                           |              |     | -121.4055              | 70°  | -121.405570 ° |  |
| DWR ID                 | DWR_RD1001_03_s _ 2013_29 |              |     |                        |      |               |  |

#### Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Continual damage caused by vehicles going around the gate, has been fixed and blocks added.

### Photo 1 of 1: FA\_2018\_RD1001\_37\_29\_20180918\_00019.jpg



Continual damage caused by vehicles going around the gate.

| LM Start               | 2.28    | Rating **      | М       | Issue No.              |            | 30           |  |
|------------------------|---------|----------------|---------|------------------------|------------|--------------|--|
| LM End                 | 2.28    | Issue Type +   | Ma      | Location *             |            | WS           |  |
| Category Earthen Levee |         |                |         | GPS Latitude/Longitude |            |              |  |
| Calegory               |         |                |         | Start                  |            | End          |  |
| Slope Stability        |         |                | 38.9963 | 02°                    | 38.996302° |              |  |
| пеш                    |         |                |         | -121.4122              | 85 °       | -121.412285° |  |
| DWR ID                 | DWR_RD1 | 001_03_s _ 201 | 3_30    |                        |            |              |  |

#### Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Damage to landside slope by vehicles needs to be repaired, Spring 2018.

### Photo 1 of 1 : FA\_2018\_RD1001\_37\_30\_20181113\_00044.jpg



View looking at waterside where slope has been disturbed by vehicle traffic, Fall 2018.

| LM Start               | 2.58                      | Rating **    | М  | Issue No.              |      | 16           |  |
|------------------------|---------------------------|--------------|----|------------------------|------|--------------|--|
| LM End                 | 2.58                      | Issue Type + | En | Location *             |      | LS           |  |
| Category Earthen Levee |                           |              |    | GPS Latitude/Longitude |      |              |  |
| Category               | Category                  |              |    | Start                  |      | End          |  |
| Itom                   | ltem Encroachments        |              |    | 38.995610°             |      | 38.995610°   |  |
| пеш                    |                           |              |    | -121.4178              | 46 ° | -121.417846° |  |
| DWR ID                 | DWR_RD1001_03_s _ 2017_16 |              |    |                        |      |              |  |
| Comment Code           |                           |              |    |                        |      |              |  |

### PR: Prunings

#### Inspector Comment

Pruning's at levee toe need to be removed. Spring 2017.

# Photo 1 of 1 : FA\_2018\_RD1001\_37\_16\_20180918\_00009.jpg



View of pruning's at levee toe landside that need to be removed.

| * Location     |                     | ** Rating                |   | + Issue Type                    |
|----------------|---------------------|--------------------------|---|---------------------------------|
| LS: Land Side  | N/A: Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency     |
| WS: Water Side |                     | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescen |
| CR : Crown     |                     | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                |

### Levee Inspection Report By Mile - Fall 2018

### **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start | 2.59                      | Rating **    | М  | Issue No.  |                        | 913          |  |  |
|----------|---------------------------|--------------|----|------------|------------------------|--------------|--|--|
| LM End   | 2.59                      | Issue Type + | En | Location * |                        |              |  |  |
| Category | Supplemental              |              |    |            | GPS Latitude/Longitude |              |  |  |
| Calegory |                           |              |    | Start      |                        | End          |  |  |
| Itom     | ltem DWR UCIP Field Study |              |    | 38.9955    | 84 °                   | 38.995584°   |  |  |
| пеш      |                           |              |    | -121.4179  | 82°                    | -121.417982° |  |  |
| DWR ID   | 22562                     |              |    |            |                        |              |  |  |

#### Inspector Comment

Comment Code

FS\_ID:41722 DS\_ID:22562 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/21/2013 Verify pipe has been abandoned properly.- pump mounted on the riverbank not found, - butterfly valve in a 30-inch concrete riser at the waterward toe not found,- concrete box on landside not found- a big tree inside concrete standpipe on landside found. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 22-inch steel pipe through the levee, 18.3 feet below the crown. Pump mounted on the riverbank. Butterfly valve in a 30-inch concrete riser at the waterside (WS) toe. Pipe discharges into a concrete box and concrete standpipe on the landside (LS). Steel plate bolted to the WS end of the pipe during the winter months. (California Packing Corporation). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/21/2013

| LM Start | 2.59 | Rating **    | М  | Issue No.  | 913 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 2.59 | Issue Type + | En | Location * |            |



WS- only a steel pipe found on riverbank.





LS- a big tree inside concrete standpipe.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start               | 2.59                            | 2.59 Rating ** |    | Issue No.              |      | 36            |
|------------------------|---------------------------------|----------------|----|------------------------|------|---------------|
| LM End                 | 2.59                            | Issue Type +   | Ма | Location *             |      | LS            |
| Category Earthen Levee |                                 |                |    | GPS Latitude/Longitude |      |               |
| Calegory               |                                 |                |    | Start                  |      | End           |
| Item                   | Trim / Thin Trees               |                |    | 38.9955                | 83 ° | 38.995583°    |
| item                   |                                 |                |    | -121.4179              | 95 ° | -121.417995 ° |
| DWR ID                 | WR ID DWR_RD1001_03_s _ 2015_36 |                |    |                        |      |               |
|                        |                                 | _              |    |                        |      |               |

Comment Code

T3: Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Tree less than 4" in diameter should be removed.



View of a small starter tree on landside slope looking downstream that is less than 4" in diameter.

| LM Start | 2.73                     | Rating **              | М  | Issue No.  |     | 5            |
|----------|--------------------------|------------------------|----|------------|-----|--------------|
| LM End   | 2.96                     | Issue Type +           | En | Location * |     | LS           |
| Category | evee                     | GPS Latitude/Longitude |    |            |     |              |
| Calegory |                          |                        |    | Start      |     | End          |
| Item     | Encroach                 | ments                  |    | 38.9951    | 07° | 38.994143°   |
| item     |                          |                        |    | -121.4205  | 35° | -121.424529° |
| DWR ID   | DWR_RD1001_03_f _ 2015_5 |                        |    |            |     |              |

Comment Code

PR: Prunings

Inspector Comment

Remove trimmings and debris from levee slope, Fall 2017.

# Photo 1 of 1: FA\_2018\_RD1001\_37\_5\_20180918\_00003.jpg



View of the prunings at the landside levee toe.

Photo 1 of 1: FA\_2018\_RD1001\_37\_53\_20180918\_00031.jpg

| LM Start   | 2.99          | Rating **      | М          | Issue No.     |                        | 53           |  |  |
|------------|---------------|----------------|------------|---------------|------------------------|--------------|--|--|
| LM End     | 2.99          | Issue Type +   | En         | Location *    | LS                     |              |  |  |
| Category   | Earthen Levee |                |            |               | GPS Latitude/Longitude |              |  |  |
| Category   |               |                | Start      |               | End                    |              |  |  |
| ltem       | Encroachi     | ments          | 38.994036° |               | 38.994036°             |              |  |  |
|            |               |                |            | -121.425007 ° |                        | -121.425007° |  |  |
| DWR ID     | DWR_RD1       | 001_03_f _ 201 | 7_53       |               |                        |              |  |  |
|            |               | Comn           | nent Cod   | de            |                        |              |  |  |
| PR : Pruni | ngs           |                |            |               |                        |              |  |  |
|            |               |                |            |               |                        |              |  |  |
|            |               | Inspecto       | or Comm    | nent          |                        |              |  |  |



View looking downstream landside of pruning's on levee slope.

Location + Issue Type Ma : Maintenance Deficiency N/A: Not Applicable LS: Land Side : Acceptable : Minimally Acceptable N : Not Inspected/Rated WS: Water Side C : Corrected Ob : Design & System Obsolescence A/W : Acceptable but Monitor & Maintain CR : Crown U : Unacceptable En: Enforcement

Remove pruning's.

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start    | 3.03          | Rating **                 | М             | Issue No.              |              | 54          |  |  |  |  |  |  |  |
|-------------|---------------|---------------------------|---------------|------------------------|--------------|-------------|--|--|--|--|--|--|--|
| LM End      | 3.03          | Issue Type +              | En            | Location *             |              | LS          |  |  |  |  |  |  |  |
| Category    | Earthen Levee |                           |               | GPS Latitude/Longitude |              |             |  |  |  |  |  |  |  |
| Calegory    |               |                           | Start         |                        | End          |             |  |  |  |  |  |  |  |
| Item        | Encroachi     | Encroachments             |               |                        | 38°          | 38.993838 ° |  |  |  |  |  |  |  |
| item        |               |                           | -121.425829 ° |                        | -121.425829° |             |  |  |  |  |  |  |  |
| DWR ID      | DWR_RD1       | DWR_RD1001_03_f _ 2017_54 |               |                        |              |             |  |  |  |  |  |  |  |
|             |               | Comn                      | nent Cod      | de                     |              |             |  |  |  |  |  |  |  |
| PO : Pole   |               |                           |               |                        |              |             |  |  |  |  |  |  |  |
|             |               |                           |               |                        |              |             |  |  |  |  |  |  |  |
|             |               | Inspecto                  | or Comm       | nent                   |              |             |  |  |  |  |  |  |  |
| Guy wire ir | n levee slo   | pe near crowr             | ٦.            |                        |              |             |  |  |  |  |  |  |  |
|             |               |                           |               |                        |              |             |  |  |  |  |  |  |  |
|             |               |                           |               |                        |              |             |  |  |  |  |  |  |  |



View looking downstream landside of a guywire into the levee slope.

| LM Start      | 3.46                      | Rating **    | М         | Issue No.              |               | 17  |
|---------------|---------------------------|--------------|-----------|------------------------|---------------|-----|
| LM End        | 3.46                      | Issue Type + | En        | Location *             | LS            |     |
| Category      | Earthen L                 | evee         |           | GPS Latitude/Longitude |               |     |
| Calegory      |                           |              |           | Start                  |               | End |
| Encroachments |                           |              | 38.9920   | 21 °                   | 38.992021 °   |     |
| Item          |                           |              | -121.4334 | 48 °                   | -121.433448 ° |     |
| DWR ID        | DWR_RD1001_03_f _ 2018_17 |              |           |                        |               |     |
| Comment Code  |                           |              |           |                        |               |     |

DE: Debris

Inspector Comment



View looking at debris and pruning's on the landside levee slope, Fall 2018.

| LM Start          | 3.52          | Rating **      | М            | Issue No.   |              | 906         |  |
|-------------------|---------------|----------------|--------------|-------------|--------------|-------------|--|
| LM End            | 3.52          | Issue Type +   | Ma           | Location *  | LS           |             |  |
| Category          | Earthen Levee |                |              |             | atitud       | e/Longitude |  |
| Calegory          |               |                |              | Start       |              | End         |  |
| Item              | Vegetation    |                |              | 38.991745°  |              | 38.991745°  |  |
| item              |               |                | -121.434398° |             | -121.434398° |             |  |
| DWR ID            | DWR_RD1       | 001_03_s _ 201 | 2_906        |             |              |             |  |
|                   |               | Comn           | nent Coc     | de          |              |             |  |
| V4 : Elderk       | perries are   | blocking visib | ility and    | flood fight | capa         | bility.     |  |
| Inspector Comment |               |                |              |             |              |             |  |
|                   |               |                |              |             |              |             |  |

No Photos

N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start          | 3.57                      | Rating **       | М          | Issue No.              |      | 21            |  |
|-------------------|---------------------------|-----------------|------------|------------------------|------|---------------|--|
| LM End            | 3.57                      | Issue Type +    | Ma         | Location *             |      | WS            |  |
| Category          | Earthen Levee             |                 |            | GPS Latitude/Longitude |      |               |  |
| Calegory          |                           |                 |            | Start                  |      | End           |  |
| Item              | Erosion / Bank Caving     |                 |            | 38.991390°             |      | 38.991390°    |  |
| item              |                           |                 |            | -121.435268 °          |      | -121.435268 ° |  |
| DWR ID            | DWR_RD1001_03_s _ 2016_21 |                 |            |                        |      |               |  |
|                   |                           | Comn            | nent Cod   | de                     |      |               |  |
| E2 : Sched        | dule repair               | of erosion site | e prior to | the next in            | spec | ction.        |  |
| Inspector Comment |                           |                 |            |                        |      |               |  |
|                   |                           |                 |            |                        |      |               |  |
|                   |                           |                 |            |                        |      |               |  |
|                   |                           |                 |            |                        |      |               |  |

Photo 1 of 1 : FA\_2018\_RD1001\_37\_21\_20180918\_00012.jpg

Erosion on waterside slope still remains as of Fall 2018.

| LM Start           | 3.61                      | Rating **    | М         | Issue No.  | 20                     |     |  |
|--------------------|---------------------------|--------------|-----------|------------|------------------------|-----|--|
| LM End             | 3.69                      | Issue Type + | En        | Location * | LS                     |     |  |
| Catagory           | Category Earthen Levee    |              |           |            | GPS Latitude/Longitude |     |  |
| Calegory           |                           |              |           | Start      |                        | End |  |
| Encroachments ltem |                           |              | 38.9912   | 30°        | 38.991207°             |     |  |
| item               |                           |              | -121.4359 | 18°        | -121.437433°           |     |  |
| DWR ID             | DWR_RD1001_03_f _ 2016_20 |              |           |            |                        |     |  |
| Comment Code       |                           |              |           |            |                        |     |  |

PO : Pole

#### Inspector Comment

Unpermitted pole line.



View looking downstream of unpermitted pole.

| LM Start     | 3.78      | Rating **      | М                      | Issue No.   |     | 18        |   |
|--------------|-----------|----------------|------------------------|-------------|-----|-----------|---|
| LM End       | 3.89      | Issue Type +   | En                     | Location *  | LS  |           |   |
| Category     | Earthen L | evee           | GPS Latitude/Longitude |             |     |           |   |
| Calegory     |           |                |                        | Start       |     | End       |   |
| Item         | Encroach  | croachments    |                        |             | 20° | 38.991173 | ٥ |
| item         |           | -121.4391      | 30°                    | -121.441249 | 0   |           |   |
| DWR ID       | DWR_RD1   | 001_03_f _ 201 | 8_18                   |             |     |           |   |
| Comment Code |           |                |                        |             |     |           |   |

PR: Prunings

#### Inspector Comment

Remove stumps from levee toe, Fall 2018.



View looking downstream landside of pushed up stumps at the levee toe, Fall 2018.

\*\* Rating

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Monitor & Maintain M: Maintain M: Maintain M: Minimally Acceptable CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Maintain M: Maintain M: Maintain M: Maintain M: Minimally Acceptable M: M: Monitor & Maintain M: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start                        | 4.01     | Rating **    | М     | Issue No.              |      | 7            |  |
|---------------------------------|----------|--------------|-------|------------------------|------|--------------|--|
| LM End                          | 4.25     | Issue Type + | En    | Location *             | LS   |              |  |
| Earthen Levee                   |          |              |       | GPS Latitude/Longitude |      |              |  |
| Category                        |          |              | Start |                        | End  |              |  |
| Item                            | Encroach | ments        |       | 38.9912                | 61 ° | 38.991927°   |  |
| пеш                             |          |              |       | -121.4434              | 44 ° | -121.447765° |  |
| DWR ID DWR_RD1001_03_s _ 2012_7 |          |              |       |                        |      |              |  |
| Comment Code                    |          |              |       |                        |      |              |  |

MA: Material

Inspector Comment

Land owner continues to leave debris and equipment next to levee toe, Spring 2018.

| LM Start | 4.01 | Rating **    | М  | Issue No.  | 7 (cont) |
|----------|------|--------------|----|------------|----------|
| LM End   | 4.25 | Issue Type + | En | Location * | LS       |



Irrigation pipe equipment and plastic cans within the easement of the levee.

# Photo 2 of 2: FA\_2018\_RD1001\_37\_7\_20180918\_00005.jpg



Irrigation pipe equipment and plastic cans within the easement of the levee.

| LM Start  | 4.06  | Rating **      | A/W      | Issue No.     |        | 24            |  |  |
|---|---|----------------|----------|---------------|--------|---------------|--|--|
| LM End  | 4.06  | Issue Type +   | Ма       | Location *    |        | LS            |  |  |
| Category  | Earthen L   | evee           |          | GPS La        | atitud | e/Longitude   |  |  |
| Category  |   |                | Start    |               | End    |               |  |  |
| Item  | Vegetation  |                |          | 38.9913       | 70°    | 38.991370°    |  |  |
| item  |   |                |          | -121.444351 ° |        | -121.444351 ° |  |  |
| DWR ID  | DWR_RD1   | 001_03_f _ 201 | 6_24     |               |        |               |  |  |
|   |   | Comn           | nent Cod | de            |        |               |  |  |
| V4 : Elderk   | V4 : Elderberries are blocking visibility and flood fight capability. |                |          |               |        |               |  |  |
| Inspector Comment   |   |                |          |               |        |               |  |  |
| Elderberries bushes have been trimmed up for access and visibility, |   |                |          |               |        |               |  |  |

No Photos

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Spring 2018.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start  | 4.24          | Rating **      | М        | Issue No.    |        | 26           |  |
|---|---------------|----------------|----------|--------------|--------|--------------|--|
| LM End  | 4.24          | Issue Type +   | En       | Location *   |        | LS           |  |
| Category  | Earthen L     | evee           |          | GPS La       | atitud | le/Longitude |  |
| Category  |               |                |          | Start        |        | End          |  |
| Item  | Encroachments |                |          | 38.9919      | 26°    | 38.991926°   |  |
| пеш   |               |                |          | -121.447669° |        | -121.447669° |  |
| DWR ID  | DWR_RD1       | 001_03_s _ 201 | 7_26     |              |        |              |  |
|   |               | Comn           | nent Cod | de           |        |              |  |
| LI : Landso   | ape Irriga    | tion           |          |              |        |              |  |
|   |               |                |          |              |        |              |  |
| Inspector Comment   |               |                |          |              |        |              |  |
| Remove drip irrigation and trash from levee slope. Fall 2018. |               |                |          |              |        |              |  |

 LM Start
 4.24
 Rating \*\*
 M
 Issue No.
 26 (cont)

 LM End
 4.24
 Issue Type +
 En
 Location \*
 LS

# Photo 1 of 2: FA\_2018\_RD1001\_37\_26\_20180918\_00015.jpg

View of the same drip irrigation and trash on levee slope.

Photo 2 of 2: FA\_2018\_RD1001\_37\_26\_20180918\_00016.jpg



View of drip irrigation and trash on levee slope.

| LM Start                         | 4.26                                     | Rating **    | М         | Issue No.  |              | 33          |  |  |
|----------------------------------|--|--------------|-----------|------------|--------------|-------------|--|--|
| LM End                           | 4.41                                     | Issue Type + | En        | Location * |              | LS          |  |  |
| Category                         | Earthen L                                | evee         |           | GPS La     | atitud       | e/Longitude |  |  |
| Calegory                         |  |              |           | Start      |              | End         |  |  |
| Item                             | Encroachi                                |              | 38.9919   | 81 °       | 38.991942°   |             |  |  |
| item                             |  |              | -121.4479 | 83°        | -121.450668° |             |  |  |
| DWR ID DWR_RD1001_03_s _ 2017_33 |  |              |           |            |              |             |  |  |
|                                  |  | Comn         | nent Cod  | de         |              |             |  |  |
| PR : Pruni                       | ngs                                      |              |           |            |              |             |  |  |
|                                  |  |              |           |            |              |             |  |  |
|                                  |  | Inspecto     | or Comm   | nent       |              |             |  |  |
| Remove p                         | Remove prunings at levee toe. Fall 2018. |              |           |            |              |             |  |  |
|                                  |  |              |           |            |              |             |  |  |
|                                  |  |              |           |            |              |             |  |  |
|                                  |  |              |           |            |              |             |  |  |



View looking downstream landside of the same pruning's on levee slope from Fall 2017 to Fall 2018.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start                                 | 4.26      | Rating **     | М        | Issue No.  |        | 33 (cont)     |  |
|--|-----------|---------------|----------|------------|--------|---------------|--|
|  |           |               |          |            | . ,    |               |  |
| LM End                                   | 4.41      | Issue Type +  | En       | Location * |        | LS            |  |
| Category                                 | Earthen L | evee          |          | GPS La     | atitud | le/Longitude  |  |
| Category                                 |           |               |          | Start      |        | End           |  |
| Item                                     | Encroach  | Encroachments |          |            | 81 °   | 38.991942°    |  |
| пеш                                      |           |               |          | -121.4479  | 83 °   | -121.450668 ° |  |
| DWR ID DWR_RD1001_03_s _ 2017_33         |           |               |          |            |        |               |  |
|  |           | Comn          | nent Cod | de         |        |               |  |
| PR : Pruni                               | ngs       |               |          |            |        |               |  |
|  |           |               |          |            |        |               |  |
|  |           | Inspecto      | or Comm  | nent       |        |               |  |
| Remove prunings at levee toe. Fall 2018. |           |               |          |            |        |               |  |
|  |           |               |          |            |        |               |  |
|  |           |               |          |            |        |               |  |



View looking downstream landside of the same pruning's on levee slope from Fall 2017 to Spring 2018.

| LM Start   | 4.47                             | Rating **    | М        | Issue No.  |        | 35           |  |  |  |
|--|----------------------------------|--------------|----------|------------|--------|--------------|--|--|--|
| LM End   | 4.47                             | Issue Type + | En       | Location * | LS     |              |  |  |  |
| Category   | Earthen L                        | evee         |          | GPS La     | atitud | e/Longitude  |  |  |  |
| Calegory   |                                  |              |          | Start      |        | End          |  |  |  |
| Item   | Encroachi                        | ments        |          | 38.9918    | 64°    | 38.991864°   |  |  |  |
| пеш  | -121.451770                      |              |          |            |        | -121.451770° |  |  |  |
| DWR ID   | DWR ID DWR_RD1001_03_s _ 2017_35 |              |          |            |        |              |  |  |  |
|  |                                  | Comn         | nent Cod | de         |        |              |  |  |  |
| LI : Landso  | cape Irriga                      | tion         |          |            |        |              |  |  |  |
|  |                                  |              |          |            |        |              |  |  |  |
|  |                                  | Inspecto     | or Comm  | nent       |        |              |  |  |  |
| Remove drip irrigation along levee toe. Fall 2018. |                                  |              |          |            |        |              |  |  |  |
|  |                                  |              |          |            |        |              |  |  |  |
|  |                                  |              |          |            |        |              |  |  |  |
|  |                                  |              |          |            |        |              |  |  |  |



View looking downstream landside of drip irrigation and trash still on levee slope.

| LM Start    | 4.47                            | Rating **      | М             | Issue No.  |                  | 9           |  |
|-------------|---------------------------------|----------------|---------------|------------|------------------|-------------|--|
| LM End      | 4.69                            | Issue Type +   | En            | Location * | LS               |             |  |
| Category    | Earthen Levee                   |                |               | GPS La     | atitud           | e/Longitude |  |
| Calegory    |                                 |                |               | Start      |                  | End         |  |
| Item        |                                 |                | 38.9918       | 62°        | 38.991400°       |             |  |
|             |                                 |                | -121.451848 ° |            | 18° -121.455901° |             |  |
| DWR ID      | DWR ID DWR_RD1001_03_s _ 2013_9 |                |               |            |                  |             |  |
|             |                                 | Comn           | nent Cod      | de         |                  |             |  |
| PR : Prunii | ngs                             |                |               |            |                  |             |  |
|             |                                 | Inchact        | or Comm       | ont        |                  |             |  |
|             |                                 |                |               | ieni       |                  |             |  |
| Pruning's s | still on leve                   | e toe, Fall 20 | 18.           |            |                  |             |  |
|             |                                 |                |               |            |                  |             |  |
|             |                                 |                |               |            |                  |             |  |
|             |                                 |                |               |            |                  |             |  |



There is a still a pile of pruning's at the toe.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start               | 4.65        | Rating **      | A/W                    | Issue No.   |              | 58      |  |
|------------------------|-------------|----------------|------------------------|-------------|--------------|---------|--|
| LM End                 | 4.65        | Issue Type +   | Ma                     | Location *  | LS           |         |  |
| Category Earthen Levee |             |                | GPS Latitude/Longitude |             |              |         |  |
| Calegory               |             |                |                        | Start       |              | End     |  |
| Item                   | Vegetatio   | n              | 38.9915                | 51°         | 38.991551 °  |         |  |
| пеш                    |             |                | -121.4550              | 92°         | -121.455092° |         |  |
| DWR ID                 | DWR_RD1     | 001_03_s _ 201 | 2_58                   |             |              |         |  |
|                        |             | Comn           | nent Cod               | de          |              |         |  |
| V4 : Elderk            | perries are | blocking visib | ility and              | flood fight | capa         | bility. |  |
|                        |             |                |                        |             |              |         |  |
|                        |             | Inspecto       | or Comm                | nent        |              |         |  |

Elderberries bushes have been trimmed up for access and visibility,

No Photos

Rating \*\* Issue No. A/W 910 LM Start 4.82 4.82 Issue Type + Location \* LS LM End Earthen Levee GPS Latitude/Longitude Category Start Fnd Vegetation 38.990773° 38.990773° Item

-121.458203°

-121.458203°

DWR\_RD1001\_03\_s \_ 2012\_910 DWR ID

Spring 2018.

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Comment Code

Elderberries bushes have been trimmed up for access and visibility, Spring 2018.

No Photos

Rating \*\* С Issue No. LM Start 5.81 32 Location \* 5.81 Issue Type + LS Ma LM End Earthen Levee GPS Latitude/Longitude Category Start End Trim / Thin Trees 38.985882° 38.985882 ° Item -121.475394° -121.475394° DWR\_RD1001\_03\_f \_ 2016\_32 DWR ID Comment Code

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

The small starter trees less than 4" in diameter have been removed, Fall 2018.

No Photos

\* Location LS: Land Side

WS: Water Side

CR : Crown

N/A: Not Applicable

A : Acceptable
M : Minimally A Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence

En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start               | 6.90          | Rating **      | С                      | Issue No.   |     | 39            |  |
|------------------------|---------------|----------------|------------------------|-------------|-----|---------------|--|
| LM End                 | 6.90          | Issue Type +   | En                     | Location *  | LS  |               |  |
| Category Earthen Levee |               |                | GPS Latitude/Longitude |             |     |               |  |
|                        |               |                | Start                  |             | End |               |  |
| Item                   | Encroachments |                |                        | 38.983222 ° |     | 38.983222°    |  |
| item                   |               |                |                        | -121.4953   | 66° | -121.495366 ° |  |
| DWR ID                 | DWR_RD1       | 001_03_s _ 201 | 3_39                   |             |     |               |  |
|                        |               | Comn           | nent Coo               | de          |     |               |  |
| PR : Pruni             | ngs           |                |                        |             |     |               |  |
|                        |               |                |                        |             |     |               |  |

Inspector Comment
Pruning's from levee toe have been burned, Fall 2018.

No Photos

| LM Start | 7.05          | Rating **              | С    | Issue No.  |      | 19          |   |  |  |  |
|----------|---------------|------------------------|------|------------|------|-------------|---|--|--|--|
| LM End   | 7.05          | Issue Type +           | En   | Location * |      | LS          |   |  |  |  |
| Category | Earthen L     | GPS Latitude/Longitude |      |            |      |             |   |  |  |  |
| Calegory |               |                        |      | Start      |      | End         |   |  |  |  |
| Item     | Encroachments |                        |      | 38.9828    | 71 ° | 38.982871   | 0 |  |  |  |
| пеш      |               |                        |      | -121.4981  | 50°  | -121.498150 | 0 |  |  |  |
| DWR ID   | DWR_RD1       | 001_03_s _ 201         | 8_19 |            |      |             |   |  |  |  |
|          | Comment Code  |                        |      |            |      |             |   |  |  |  |

Comment Code

PR: Prunings

Inspector Comment

Pruning's from levee toe have been burned, Fall 2018.

No Photos

| LM Start | 7.22    | Rating **     | М       | Issue No.  |        | 13          |   |
|----------|---------|---------------|---------|------------|--------|-------------|---|
| LM End   | 7.31    | Issue Type +  | Ma      | Location * |        | WS          |   |
| Category |         |               |         | GPS La     | atitud | e/Longitude |   |
| Calegory |         |               |         | Start      |        | End         |   |
| Item     |         | ACE Erosion S | Survey, | 38.9827    | 37°    | 38.982572   | 0 |
| пеш      | DRAFT   |               |         | -121.5011  | 44 °   | -121.502797 | 0 |
| DWR ID   | DWR RD1 | 001 03 f 201  | 8 13    |            |        |             |   |

Inspector Comment

Comment Code

2017 Site ID: BER 5.7 L

Status: Eroding

2017 Field Notes: Minor new erosion observed.

Site History: 2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm.

Photo 1 of 1 : FA\_2018\_RD1001\_37\_13\_20181114\_00013.jpg



USACE 2013 Photo #1

\*Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiency Ob: Design & System Obsolescence

CR: Crown

\*\* Rating

A: Acceptable C: Corrected Ob: Design & System Obsolescence

C: Corrected Ob: Design & System Obsolescence

En: Enforcement

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start          | 7.72          | Rating **                 | М         | Issue No. 25 |          | 25           |  |
|-------------------|---------------|---------------------------|-----------|--------------|----------|--------------|--|
| LM End            | 7.72          | Issue Type +              | Ма        | Location *   | ion * WS |              |  |
| Category          | Earthen L     | evee                      |           | GPS La       | atitud   | e/Longitude  |  |
| Calegory          |               |                           | Start     |              | End      |              |  |
| Trim / Thin Trees |               | 38.9803                   | 42 °      | 38.980342°   |          |              |  |
| item              |               |                           |           | -121.5097    | 12 °     | -121.509712° |  |
| DWR ID            | DWR_RD1       | DWR_RD1001_03_s _ 2018_25 |           |              |          |              |  |
|                   |               | Comn                      | nent Cod  | de           |          |              |  |
| T1 : Trim t       | rees to at I  | east five feet            | above g   | round level. |          |              |  |
|                   |               | Inspecto                  | or Comm   | nent         |          |              |  |
| Remove fa         | allen tree fr | om levee slop             | e, Fall 2 | 2018.        |          |              |  |
|                   |               |                           |           |              |          |              |  |
|                   |               |                           |           |              |          |              |  |



View looking downstream waterside of a fallen tree that needs to be removed.

| LM Start               | 8.36                      | Rating **    | С         | Issue No.  |               | 23          |
|------------------------|---------------------------|--------------|-----------|------------|---------------|-------------|
| LM End                 | 8.36                      | Issue Type + | Ма        | Location * |               | LS          |
| Category Earthen Levee |                           |              | GPS La    | titud      | le/Longitude  |             |
| Calegory               |                           |              | Start     |            | End           |             |
| Item                   | Vegetatio                 | Vegetation   |           |            | 01°           | 38.973901 ° |
| item                   |                           |              | -121.5182 | 70°        | -121.518270 ° |             |
| DWR ID                 | DWR_RD1001_03_f _ 2018_23 |              |           |            |               |             |
|                        |                           |              |           |            |               |             |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Wild growth has been removed, Fall 2018.

No Photos

| LM Start     | 9.05              | Rating **      | С         | Issue No.              | 34          |           |   |  |
|--------------|-------------------|----------------|-----------|------------------------|-------------|-----------|---|--|
| LM End       | 9.09              | Issue Type +   | Ma        | Location *             | LS          |           |   |  |
| Category     | Earthen Levee     |                |           | GPS Latitude/Longitude |             |           |   |  |
| Calegory     |                   |                |           | Start                  |             | End       |   |  |
| Item         | Trim / Thin Trees |                |           | 38.9691                | 02°         | 38.969271 | 0 |  |
| пеш          |                   |                | -121.5290 | 17°                    | -121.529583 | 0         |   |  |
| DWR ID       | DWR_RD1           | 001_03_f _ 201 |           |                        |             |           |   |  |
| Comment Code |                   |                |           |                        |             |           |   |  |

T2: Thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Starter willow trees have been removed from levee slope, Fall 2018.

No Photos

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

|   |             |                |            |             |        |             | _ |  |
|---|-------------|----------------|------------|-------------|--------|-------------|---|--|
| LM Start  | 9.31        | Rating **      | A/W        | Issue No.   |        | 44          | _ |  |
| LM End  | 9.31        | Issue Type +   | Ma         | Location *  |        | WS          |   |  |
| Category  | Earthen L   | evee           |            | GPS La      | atitud | e/Longitude |   |  |
| Category  |             |                |            | Start       |        | End         |   |  |
| Item  | Vegetatio   | n              |            | 38.9705     | 76°    | 38.970576   | 0 |  |
| Item  |             |                |            | -121.5333   | 34°    | -121.533334 | 0 |  |
| DWR ID  | DWR_RD1     | 001_03_f _ 201 | 6_44       |             |        |             |   |  |
|   |             | Comn           | nent Cod   | de          |        |             |   |  |
| V4 : Elderl   | perries are | blocking visit | oility and | flood fight | сара   | bility.     |   |  |
|   |             |                |            |             |        |             |   |  |
| Inspector Comment   |             |                |            |             |        |             |   |  |
| Elderberries bushes have been trimmed up for access and visibility. |             |                |            |             |        |             |   |  |
|   |             |                |            |             |        |             |   |  |
|   |             |                |            |             |        |             |   |  |

No Photos

Rating \*\* Issue No. 10.13 С 31 LM Start 10.18 Issue Type + Ма Location \* LS LM End Earthen Levee GPS Latitude/Longitude Category Start End Trim / Thin Trees 38.967683° 38.966864° -121.543595 ° -121.543688 ° DWR\_RD1001\_03\_s \_ 2018\_31 Comment Code

The second of th

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

Tree limbs have been trimmed for access and visibility, Fall 2018.

No Photos

\* Location

LS: Land Side N/A: Not Applicable WS: Water Side

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start | 10.36                     | Rating **                  | М  | Issue No.  |     | 12          |   |
|----------|---------------------------|----------------------------|----|------------|-----|-------------|---|
| LM End   | 10.40                     | Issue Type +               | Ma | Location * |     | WS          |   |
| Category | Suppleme                  | GPS Latitude/Longitude     |    |            |     |             |   |
| Calegory | Category                  |                            |    |            |     | End         |   |
| Item     |                           | 2017 USACE Erosion Survey, |    |            | 3°  | 38.964010   | 0 |
| пеш      | DRAFT                     |                            |    | -121.54496 | 7 ° | -121.545228 | 0 |
| DWR ID   | DWR_RD1001_03_f _ 2018_12 |                            |    |            |     |             |   |

#### Inspector Comment

Comment Code

2017 Site ID: BER 2.5 L Status: Eroding

2017 Field Notes: Erosion pockets have expanded

Site History: 2011 - Large section of bank has slumped off. RD has flagged and appears to be watching. 2012 - Slopes slightly steeper. 2013 - Minor new erosion observed.



USACE 2013 Photo #1

| LM Start | 10.49                     | Rating **              | U  | Issue No.  |      | 11            |  |
|----------|---------------------------|------------------------|----|------------|------|---------------|--|
| LM End   | 10.49                     | Issue Type +           | En | Location * |      | LS            |  |
| Catagony | Earthen L                 | GPS Latitude/Longitude |    |            |      |               |  |
| Calegory | Category                  |                        |    |            |      | End           |  |
| Item     | Encroachments             |                        |    | 38.9627    | 70°  | 38.962770 °   |  |
| item     |                           |                        |    | -121.5457  | 41 ° | -121.545741 ° |  |
| DWR ID   | DWR_RD1001_03_f _ 2015_11 |                        |    |            |      |               |  |

#### BU: Building

## Inspector Comment

Comment Code

Small sheds are at levee toe, Fall 2017.

# Photo 1 of 1: FA\_2018\_RD1001\_37\_11\_20180918\_00008.jpg



View of building at the landside toe.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start                                   | 10.53     | Rating **                 | М            | Issue No.  |              | 37          |  |
|--|-----------|---------------------------|--------------|------------|--------------|-------------|--|
| LM End                                     | 10.53     | Issue Type +              | En           | Location * |              | CR          |  |
| Category                                   | Earthen L | evee                      |              | GPS La     | atitud       | e/Longitude |  |
| Calegory                                   |           |                           |              | Start      |              | End         |  |
| Item                                       | Encroach  | ments                     |              | 38.962231° |              | 38.962231 ° |  |
| item                                       |           |                           | -121.546084° |            | -121.546084° |             |  |
| DWR ID                                     | DWR_RD1   | DWR_RD1001_03_f _ 2018_37 |              |            |              |             |  |
|  |           | Comn                      | nent Cod     | de         |              |             |  |
| DE : Debri                                 | S         |                           |              |            |              |             |  |
|  |           |                           |              |            |              |             |  |
| Inspector Comment                          |           |                           |              |            |              |             |  |
| Remove debris from levee crown, Fall 2018. |           |                           |              |            |              |             |  |



View looking downstream waterside crown of debris that needs to be removed, Fall 2018.

Photo 1 of 1: FA\_2018\_RD1001\_37\_10\_20181114\_00007.jpg

| LM Start                         | 11.08    | Rating **              | A/W     | Issue No.  |     | 10           |  |
|----------------------------------|----------|------------------------|---------|------------|-----|--------------|--|
| LM End                           | 11.16    | Issue Type +           | Ma      | Location * |     | WS           |  |
| Category                         | Suppleme | GPS Latitude/Longitude |         |            |     |              |  |
| Calegory                         |          |                        |         | Start      |     | End          |  |
| Item                             |          | CE Erosion S           | Survey, | 38.9550    | 70° | 38.954227°   |  |
| пеш                              | DRAFT    |                        |         | -121.5495  | 28° | -121.550592° |  |
| DWR ID DWR_RD1001_03_f _ 2018_10 |          |                        |         |            |     |              |  |
| Comment Code                     |          |                        |         |            |     |              |  |

# Inspector Comment

2017 Site ID: BER 1.9 L

Status: Eroding

2017 Field Notes: Minor new erosion observed.

Site History: 2011 - Large slumped sections of bank. 2012 - Slopes

slightly steeper.

| - Millian  |
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| THE RESERVE OF THE PARTY OF THE |
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| The state of the s |
|  |
| USACE 2013 Photo #1  |

USACE 2013 Photo #1

| LM Start                         | 11.23     | Rating **              | М  | Issue No.  |     | 22           |  |
|----------------------------------|-----------|------------------------|----|------------|-----|--------------|--|
| LM End                           | 11.26     | Issue Type +           | Ma | Location * |     | LS           |  |
| Category                         | evee      | GPS Latitude/Longitude |    |            |     |              |  |
| Calegory                         |           |                        |    | Start      |     | End          |  |
| Item                             | Vegetatio | n                      |    | 38.95336   | 67° | 38.953025 °  |  |
| пеш                              |           |                        |    | -121.55142 | 28° | -121.551808° |  |
| DWR ID DWR_RD1001_03_s _ 2012_22 |           |                        |    |            |     |              |  |
| Comment Code                     |           |                        |    |            |     |              |  |

Inspector Comment

V4: Elderberries are blocking visibility and flood fight capability.

No Photos

| * Location                          | ** Rating                |   | + Issue Type                      |
|-------------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |
| WS: Water Side                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |
| CR : Crown                          | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway               | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|------------------------|------|------------|--------------------------|------------------|
| Unit No. 03 Bear River | Left | 12.58      | 10/10/2018<br>10/10/2018 | Sterling<br>York |

| LM Start                        | 12.07    | Rating **    | С       | Issue No.  |        | 8           |   |
|---------------------------------|----------|--------------|---------|------------|--------|-------------|---|
| LM End                          | 12.16    | Issue Type + | Ma      | Location * |        | WS          |   |
| Category                        | Suppleme | ental        |         | GPS La     | atitud | e/Longitude |   |
| Calegory                        |          | Start        |         | End        |        |             |   |
| Item                            |          | CE Erosion S | Survey, | 38.9475    | 91 °   | 38.946477   | 0 |
| item                            | DRAFT    |              |         | -121.5633  | 90°    | -121.564094 | 0 |
| DWR ID DWR_RD1001_03_f _ 2018_8 |          |              |         |            |        |             |   |
| Comment Code                    |          |              |         |            |        |             |   |

No Photos

Inspector Comment

2017 Site ID: BER 0.8 L Status: Repaired

2017 Field Notes: The 2017 floods caused additional damage to the site, however the site was repaired by locals, with a very steep rock riprap slope. The rock slope appears to be less than 1:1, some rock already appears to be failing.

Site History: 2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 - Still steep bank with some berm with pistol-butted reeds. 2012 - Site extended upstream due to additional slumping. Slopes slightly steeper.

| LM Start  | 12.18      | Rating **      | М      | Issue No.  | 27           |               |  |
|---|------------|----------------|--------|------------|--------------|---------------|--|
| LM End  | 12.18      | Issue Type +   | Ma     | Location * | LS           |               |  |
| Category  | Earthen L  | evee           | GPS La | titud      | le/Longitude |               |  |
| Calegory  | ategory    |                |        |            |              | End           |  |
| Item  | Vegetation |                |        | 38.9462    | 48°          | 38.946248 °   |  |
| пеш   |            |                |        | -121.5642  | 20°          | -121.564220 ° |  |
| DWR ID  | DWR_RD1    | 001_03_s _ 201 | 2_27   |            |              |               |  |
| Comment Code  |            |                |        |            |              |               |  |
| V4 : Elderberries are blocking visibility and flood fight capability. |            |                |        |            |              |               |  |

Inspector Comment

No Photos

\* Location LS : Land Side N/A : WS : Water Side

N/A: Not Applicable

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence

A/W : Acceptable but Monitor & Maintain En : Enforcement

# **Unit Cover Sheet**

#### Fall 2018 Levee Inspection Results

## **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles |
|---------------------------|------|------------|
| Unit No. 04 Feather River | Left | 13.27      |

|                                     | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
|-------------------------------------|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) |                         |                           | М                              |                                 |
| Date of Inspection                  | 4/3/2018 - 4/4/2018     |                           | 10/26/2018 - 10/26/2018        |                                 |
| DWR Inspector                       | Sterling York           |                           | Sterling York                  |                                 |
| Accompanied By                      | Joe Henderson<br>RD1001 |                           | Joe Henderson<br>RD1001        |                                 |

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

## http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 0.12       | Rating **    | С  | Issue No. 31 |              |              |
|----------------------------------|------------|--------------|----|--------------|--------------|--------------|
| LM End                           | 0.15       | Issue Type + | Ма | Location *   | ocation * LS |              |
| Earthen Levee                    |            |              |    | GPS La       | atitud       | e/Longitude  |
| Category                         | egory      |              |    | Start        |              | End          |
| Item                             | Trim / Thi | n Trees      |    | 38.9393      | 88°          | 38.938985 °  |
| пеш                              | em         |              |    |              | 82°          | -121.567772° |
| DWR ID DWR_RD1001_04_s _ 2018_31 |            |              |    |              |              |              |
| Comment Code                     |            |              |    |              |              |              |

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

Downed tree from levee slope is removed, Fall 2018.

| LM Start                         | 0.13      | Rating **    | С  | Issue No.  |        | 57          |   |
|----------------------------------|-----------|--------------|----|------------|--------|-------------|---|
| LM End                           | 0.13      | Issue Type + | Ma | Location * |        | LS          |   |
| Category                         | Earthen L | evee         |    | GPS La     | atitud | e/Longitude |   |
| Calegory                         |           |              |    | Start      |        | End         |   |
| Item                             | Vegetatio | n            |    | 38.9392    | 19°    | 38.939219   | 0 |
| пеш                              |           |              |    | -121.5677  | 89°    | -121.567789 | 0 |
| DWR ID DWR_RD1001_04_f _ 2017_57 |           |              |    |            |        |             |   |
| Comment Code                     |           |              |    |            |        |             |   |

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Remove wild growth from levee slope, Fall 2017.

No Photos

No Photos

| LM Start                        | 0.14     | Rating **    | С  | Issue No.  |               | 3           |   |
|---------------------------------|----------|--------------|----|------------|---------------|-------------|---|
| LM End                          | 0.14     | Issue Type + | Ma | Location * | Location * WS |             |   |
| Catagory Earthen Levee          |          |              |    | GPS La     | titud         | e/Longitude |   |
| Category                        |          |              |    | Start      |               | End         |   |
| Item                            | Encroach | ments        |    | 38.93902   | 29°           | 38.939029   | 0 |
| item                            |          |              |    | -121.56777 | 71 °          | -121.567771 | 0 |
| DWR ID DWR_RD1001_04_s _ 2017_3 |          |              |    |            |               |             |   |
| Comment Code                    |          |              |    |            |               |             |   |

PR: Prunings

CR : Crown

Inspector Comment

U : Unacceptable

Pruning's from hinge point have been removed, Fall 2018.

No Photos

En: Enforcement

\* Location + Issue Type N : Not Inspected/Rated C : Corrected Ma : Maintenance Deficiency
Ob : Design & System Obsolescence LS : Land Side N/A: Not Applicable A : Acceptable M : Minimally Acceptable WS: Water Side A/W : Acceptable but Monitor & Maintain

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 0.17          | Rating **            | С | Issue No.  |      | 46          |   |
|----------------------------------|---------------|----------------------|---|------------|------|-------------|---|
| LM End                           | 0.17          | 0.17 Issue Type + Ma |   | Location * |      | LS          |   |
| Category                         | Earthen Levee |                      |   | GPS Lat    | itud | e/Longitude |   |
| Calegory                         |               |                      |   | Start      |      | End         |   |
| Item                             | Vegetatio     | n                    |   | 38.93871   | 5°   | 38.938715   | 0 |
| пеш                              |               |                      |   | -121.56776 | B°   | -121.567768 | 0 |
| DWR ID DWR_RD1001_04_f _ 2016_46 |               |                      |   |            |      |             |   |

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Blackberry bush has been removed from the landside levee slope, Fall 2018.

No Photos

No Photos

| LM Start               | 0.18                      | Rating **    | С         | Issue No.              |              | 63         |
|------------------------|---------------------------|--------------|-----------|------------------------|--------------|------------|
| LM End                 | 0.18                      | Issue Type + | Ma        | Location *             |              | LS         |
| Category Earthen Levee |                           |              |           | GPS Latitude/Longitude |              |            |
| Calegory               | gory                      |              |           |                        |              | End        |
| Item                   | Slope Sta                 | bility       |           | 38.9385                | 34°          | 38.938534° |
| пеш                    |                           |              | -121.5677 | 29°                    | -121.567729° |            |
| DWR ID                 | DWR_RD1001_04_s _ 2016_63 |              |           |                        |              |            |

#### Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Slope damage caused by ATV has been repaired, Fall 2018.

Rating \*\* Issue No. С LM Start 0.20 42 Location \* 0.20 Issue Type + Ma CR LM End Earthen Levee GPS Latitude/Longitude Category Start End Encroachments 38.938233° 38.938233° Item -121.567731 ° -121.567731 ° DWR ID DWR\_RD1001\_04\_s \_ 2017\_42

Comment Code

PR: Prunings

#### Inspector Comment

Remove pruning's from fallen tree from both sides of hinge points, Spring 2017.

No Photos

\* Location

CR : Crown

LS : Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence

En: Enforcement

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start               | 0.37                             | Rating **    | A/W | Issue No.              |     | 64           |  |  |  |
|------------------------|----------------------------------|--------------|-----|------------------------|-----|--------------|--|--|--|
| LM End                 | 0.37                             | Issue Type + | Ma  | Location *             | LS  |              |  |  |  |
| Category Earthen Levee |                                  |              |     | GPS Latitude/Longitude |     |              |  |  |  |
| Category               |                                  |              |     | Start                  |     | End          |  |  |  |
| Item                   | Slope Sta                        | bility       |     | 38.9359                | 03° | 38.935903°   |  |  |  |
| item                   |                                  |              |     | -121.5672              | 50° | -121.567250° |  |  |  |
| DWR ID                 | DWR ID DWR_RD1001_04_s _ 2016_64 |              |     |                        |     |              |  |  |  |
| Comment Code           |                                  |              |     |                        |     |              |  |  |  |
| C1 . Danci             | r alana ina                      | tobility.    |     |                        |     |              |  |  |  |

S1 : Repair slope instability.

#### Inspector Comment

Animal trail is not being used and shows no sign of erosion or sloughing. Fall 2017.

| LM Start | 0.37 | Rating **    | A/W | Issue No.  | 64 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End   | 0.37 | Issue Type + | Ma  | Location * | LS        |

# Photo 1 of 2: FA\_2018\_RD1001\_38\_64\_20181114\_00077.jpg



View looking downstream of animal trail that is not being used and shows no sign of erosion or sloughing. Fall 2018.

Photo 2 of 2: FA\_2018\_RD1001\_38\_64\_20180918\_00040.jpg



View looking downstream of animal trail that is not being used and shows no sign of erosion or sloughing. Spring 2017.

| LM Start               | 0.39                             | Rating **    | С      | Issue No.  |              | 16          |   |  |  |
|------------------------|----------------------------------|--------------|--------|------------|--------------|-------------|---|--|--|
| LM End                 | 0.39                             | Issue Type + | Ma     | Location * | LS           |             |   |  |  |
| Category Earthen Levee |                                  |              | GPS La | atitud     | le/Longitude |             |   |  |  |
| Calegory               |                                  |              | Start  |            | End          |             |   |  |  |
| Item                   | Slope Sta                        | bility       |        | 38.9355    | 19°          | 38.935519   | 0 |  |  |
| пеш                    |                                  |              |        | -121.5670  | 42 °         | -121.567042 | 0 |  |  |
| DWR ID                 | DWR ID DWR_RD1001_04_f _ 2015_16 |              |        |            |              |             |   |  |  |
| Comment Code           |                                  |              |        |            |              |             |   |  |  |
| C2 . D:                |                                  |              |        |            |              |             |   |  |  |

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Slope damage caused by ATV has been repaired, Fall 2018.

No Photos

| * Location                          | ** Rating                |   | + Issue Type                      |
|-------------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |
| WS: Water Side                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |
| CR : Crown                          | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 0.49         | Rating **    | М  | Issue No.              | 59   |               |  |  |
|----------------------------------|--------------|--------------|----|------------------------|------|---------------|--|--|
| LM End                           | 0.49         | Issue Type + | Ма | Location *             | LS   |               |  |  |
| Category Earthen Levee           |              |              |    | GPS Latitude/Longitude |      |               |  |  |
| Category                         |              |              |    | Start                  |      | End           |  |  |
| Item                             | Trim / Thi   | n Trees      |    | 38.93413               | 39°  | 38.934139°    |  |  |
| пеш                              |              |              |    | -121.56702             | 25 ° | -121.567025 ° |  |  |
| DWR ID DWR_RD1001_04_f _ 2016_59 |              |              |    |                        |      |               |  |  |
|                                  | Comment Code |              |    |                        |      |               |  |  |

T2: Thin trees to allow visibility of the ground and room to flood fight.

# Inspector Comment

Trees 4" in diameter or less at chest height should be removed.

# Photo 1 of 1: FA\_2018\_RD1001\_38\_59\_20180918\_00034.jpg



View of three trees with diameters less than 4", landside.

| LM Start                | 0.51                          | Rating **    | N         | Issue No.  |              | 21          |  |
|-------------------------|-------------------------------|--------------|-----------|------------|--------------|-------------|--|
| LM End                  | 0.51                          | Issue Type + | Ma        | Location * | on * LS      |             |  |
| Catagoria Earthen Levee |                               |              |           | GPS La     | atitud       | e/Longitude |  |
| Category                |                               |              |           | Start      |              | End         |  |
| Item                    | Trim / Thi                    | n Trees      |           | 38.9337    | 96°          | 38.933796°  |  |
| пеш                     |                               |              | -121.5670 | 47°        | -121.567047° |             |  |
| DWR ID                  | VR ID DWR RD1001 04 f 2015 21 |              |           |            |              |             |  |

Comment Code

T5: Tree stumps.

#### Inspector Comment

Remove stump from the landside levee slope.

# Photo 1 of 1: FA\_2018\_RD1001\_38\_21\_20180918\_00006.jpg



View of a stump in the landside levee slope.

|     | LM Start | 0.55      | Rating **    | М            | Issue No.  |     | 68          |   |
|-----|----------|-----------|--------------|--------------|------------|-----|-------------|---|
|     | LM End   | 0.55      | Issue Type + | Ma           | Location * |     | LS          |   |
|     | Category | GPS La    | atitud       | le/Longitude |            |     |             |   |
|     | Calegory |           |              |              | Start      |     | End         |   |
|     | Item     | Slope Sta | bility       |              | 38.9332    | 99° | 38.933299   | 0 |
| пеш |          |           |              |              | -121.5670  | 69° | -121.567069 | 0 |
|     | DWR ID   | DWR RD1   | 001 04 s 201 | 6 68         |            |     |             |   |

#### Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

U : Unacceptable

Repair slope damage caused by ATV, Fall 2018.

# Photo 1 of 1: FA\_2018\_RD1001\_38\_68\_20180918\_00047.jpg



View of ruts caused by vehicle on the landside levee slope.

En: Enforcement

Location + Issue Type N/A: Not Applicable Ma: Maintenance Deficiency LS: Land Side : Acceptable : Minimally Acceptable N : Not Inspected/Rated WS: Water Side C : Corrected Ob : Design & System Obsolescence A/W : Acceptable but Monitor & Maintain

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| 60                               |  |  |  |  |  |  |  |
|----------------------------------|--|--|--|--|--|--|--|
|                                  |  |  |  |  |  |  |  |
| WS                               |  |  |  |  |  |  |  |
| e/Longitude                      |  |  |  |  |  |  |  |
| End                              |  |  |  |  |  |  |  |
| 38.933229°                       |  |  |  |  |  |  |  |
| -121.567097°                     |  |  |  |  |  |  |  |
| DWR ID DWR_RD1001_04_f _ 2016_60 |  |  |  |  |  |  |  |
|                                  |  |  |  |  |  |  |  |
|                                  |  |  |  |  |  |  |  |
|                                  |  |  |  |  |  |  |  |
|                                  |  |  |  |  |  |  |  |
|                                  |  |  |  |  |  |  |  |
|                                  |  |  |  |  |  |  |  |
|                                  |  |  |  |  |  |  |  |
|                                  |  |  |  |  |  |  |  |



View of tree stump, waterside crown at gate.

| LM Start                         | 0.55       | Rating **    | N  | Issue No.  |        | 61           |  |  |
|----------------------------------|------------|--------------|----|------------|--------|--------------|--|--|
| LM End                           | 0.55       | Issue Type + | Ma | Location * | LS     |              |  |  |
| Earthen Levee                    |            |              |    | GPS La     | atitud | le/Longitude |  |  |
| Category                         |            |              |    | Start      |        | End          |  |  |
| Item                             | Trim / Thi | n Trees      |    | 38.9332    | 29°    | 38.933229°   |  |  |
| пеш                              |            |              |    | -121.5670  | 97 °   | -121.567097° |  |  |
| DWR ID DWR_RD1001_04_f _ 2016_61 |            |              |    |            |        |              |  |  |
|                                  |            |              |    |            |        |              |  |  |

Comment Code

T5 : Tree stumps.

Inspector Comment

# Photo 1 of 1: FA\_2018\_RD1001\_38\_61\_20180918\_00036.jpg



View of tree stump, landside crown at gate.

Photo 1 of 2: FA\_2018\_RD1001\_38\_54\_20181114\_00081.jpg

| LM Start | 0.57          | Rating **      | Α    | Issue No.  |                        | 54           |  |
|----------|---------------|----------------|------|------------|------------------------|--------------|--|
| LM End   | 12.35         | Issue Type +   | Ма   | Location * |                        | LS           |  |
| Category | Earthen Levee |                |      |            | GPS Latitude/Longitude |              |  |
| Calegory |               | Start          |      | End        |                        |              |  |
| Item     | Vegetatio     | Vegetation     |      |            | 23°                    | 38.787132°   |  |
| пеш      |               |                |      | -121.5671  | 05 °                   | -121.620586° |  |
| DWR ID   | DWR_RD1       | 001_04_f _ 201 | 8_54 |            |                        |              |  |

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

# Inspector Comment

The annual vegetation is well maintained, Fall 2018.



View looking upstream lanside LM 11.93 of the well maintained annual vegetation, Fall 2018.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start               | 0.57                             | Rating **    | ng ** A Issue No. <b>54 (</b> c |                        | 54 (cont) |               |  |
|------------------------|----------------------------------|--------------|---------------------------------|------------------------|-----------|---------------|--|
| LM End                 | 12.35                            | Issue Type + | Ма                              | Location *             | LS        |               |  |
| Category Earthen Levee |                                  |              |                                 | GPS Latitude/Longitude |           |               |  |
| Category               |                                  |              | Start                           |                        | End       |               |  |
| Item                   | Vegetatio                        | n            |                                 | 38.9329                | 23 °      | 38.787132°    |  |
| item                   |                                  |              |                                 | -121.5671              | 05°       | -121.620586 ° |  |
| DWR ID                 | DWR ID DWR_RD1001_04_f _ 2018_54 |              |                                 |                        |           |               |  |
| Comment Code           |                                  |              |                                 |                        |           |               |  |

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

The annual vegetation is well maintained, Fall 2018.



View looking downstream landside LM 3.62 of the well maintained annual vegetation, Fall 2018.

| LM Start                         | 0.59       | Rating **              | Α  | Issue No.  |      | 62           |
|----------------------------------|------------|------------------------|----|------------|------|--------------|
| LM End                           | 5.13       | Issue Type +           | Ма | Location * |      | WS           |
| Category                         | Earthen L  | GPS Latitude/Longitude |    |            |      |              |
| Calegory                         | Category   |                        |    |            |      | End          |
| Item                             | Vegetation |                        |    | 38.9326    | 17°  | 38.882985 °  |
| item                             |            |                        |    | -121.5671  | 23 ° | -121.611210° |
| DWR ID DWR_RD1001_04_f _ 2018_62 |            |                        |    |            |      |              |

#### Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

## Inspector Comment

The annual vegetation is well maintained, Fall 2018.

# Photo 1 of 1 : FA\_2018\_RD1001\_38\_62\_20181114\_00079.jpg



View looking downstream waterside of the well maintained annual vegetation, Fall 2018.

| LM Start | 1.06                      | Rating **    | N          | Issue No.              |               | 69         |  |  |
|----------|---------------------------|--------------|------------|------------------------|---------------|------------|--|--|
| LM End   | 1.06                      | Issue Type + | Ма         | Location *             |               | LS         |  |  |
| Catagory | Category Earthen Levee    |              |            | GPS Latitude/Longitude |               |            |  |  |
| Calegory |                           |              |            | Start                  |               | End        |  |  |
| Item     | Trim / Thin Trees         |              |            | 38.92612               | 8°            | 38.926128° |  |  |
| пеш      |                           |              | -121.56824 | 1°                     | -121.568241 ° |            |  |  |
| DWR ID   | DWR_RD1001_04_s _ 2016_69 |              |            |                        |               |            |  |  |
|          | Comment Code              |              |            |                        |               |            |  |  |

T5: Tree stumps.

#### Inspector Comment

# Photo 1 of 1 : FA\_2018\_RD1001\_38\_69\_20180918\_00048.jpg



View of landside toe of a stump that needs to be removed.

Page 6 of 40

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                          | 1.07      | Rating **     | М        | Issue No.  |        | 65            |
|-----------------------------------|-----------|---------------|----------|------------|--------|---------------|
| LM End                            | 1.07      | Issue Type +  | Ма       | Location * |        | CR            |
| Category                          | Earthen L | evee          |          | GPS La     | atitud | e/Longitude   |
| Category                          |           |               |          | Start      |        | End           |
| Item                              | Encroach  | Encroachments |          |            | 91°    | 38.925991°    |
| пеш                               |           |               |          |            | 82°    | -121.568282 ° |
| DWR ID DWR_RD1001_04_f _ 2017_65  |           |               |          |            |        |               |
|                                   |           | Comn          | nent Cod | de         |        |               |
| FW : Firev                        | vood      |               |          |            |        |               |
|                                   |           | Inspect       | or Comm  | nent       |        |               |
| Remove firewood from levee crown. |           |               |          |            |        |               |
|                                   |           |               |          |            |        |               |
|                                   |           |               |          |            |        |               |
|                                   |           |               |          |            |        |               |



View looking downstream waterside crown at firewood.

| LM Start                           | 1.51              | Rating **    | М        | Issue No.  |             | 67           |  |  |
|------------------------------------|-------------------|--------------|----------|------------|-------------|--------------|--|--|
| LM End                             | 1.51              | Issue Type + | Ma       | Location * |             | WS           |  |  |
| Category                           | evee              |              | GPS La   | atitud     | e/Longitude |              |  |  |
| Odlogory                           |                   |              |          | Start      |             | End          |  |  |
| Item                               | Encroachments     |              |          | 38.9196    | 43°         | 38.919643°   |  |  |
| item                               |                   |              |          | -121.5692  | 33°         | -121.569233° |  |  |
| DWR ID DWR_RD1001_04_f _ 2017_67   |                   |              |          |            |             |              |  |  |
|                                    |                   | Comn         | nent Cod | de         |             |              |  |  |
| PR : Pruni                         | ngs               |              |          |            |             |              |  |  |
|                                    |                   |              |          |            |             |              |  |  |
|                                    | Inspector Comment |              |          |            |             |              |  |  |
| Remove pruning's from levee slope. |                   |              |          |            |             |              |  |  |
|                                    |                   |              |          |            |             |              |  |  |
|                                    |                   |              |          |            |             |              |  |  |



View looking downstream waterside of pruning's on the levee slope.

| LM Start                         | 2.27                    | Rating **    | М  | Issue No.     |        | 19               |  |
|----------------------------------|-------------------------|--------------|----|---------------|--------|------------------|--|
| LM End                           | 2.27                    | Issue Type + | En | Location *    |        | LS               |  |
| Category                         | Catagonia Earthen Levee |              |    | GPS La        | atitud | le/Longitude     |  |
| Category                         |                         |              |    | Start         |        | End              |  |
| Item                             | Encroachments           |              |    |               | '90 °  | 38.909790°       |  |
| пеш                              |                         |              |    | -121.574449 ° |        | 19° -121.574449° |  |
| DWR ID DWR_RD1001_04_s _ 2013_19 |                         |              |    |               |        |                  |  |
|                                  | Comment Code            |              |    |               |        |                  |  |
| PO : Pole                        |                         |              |    |               |        |                  |  |
|                                  |                         |              |    |               |        |                  |  |
| Inspector Comment                |                         |              |    |               |        |                  |  |
|                                  |                         |              |    |               |        |                  |  |
|                                  |                         |              |    |               |        |                  |  |
|                                  |                         |              |    |               |        |                  |  |



View of power pole and guy wire on the levee slope.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start    | 2.44       | Rating **      | N                     | Issue No.     |        | 71          |  |
|-------------|------------|----------------|-----------------------|---------------|--------|-------------|--|
| LM End      | 2.44       | Issue Type +   | Ма                    | Location * LS |        |             |  |
| Category    | Earthen L  | evee           |                       | GPS La        | atitud | e/Longitude |  |
| Calegory    |            |                |                       | Start         |        | End         |  |
| Item        | Trim / Thi | n Trees        |                       | 38.9074       | 66°    | 38.907466   |  |
| item        |            |                |                       | -121.5754     | 13°    | -121.575413 |  |
| DWR ID      | DWR_RD1    | 001_04_f _ 201 | 8_71                  |               |        |             |  |
|             |            | Comn           | nent Cod              | de            |        |             |  |
| T5 : Tree s | stumps.    |                |                       |               |        |             |  |
|             |            | Inanaat        | or Comm               | ant           |        |             |  |
|             |            | Inspect        | or Comm               | ient          |        |             |  |
| Stumps sh   | ould be re | moved from le  | evee slo <sub>l</sub> | pe, Fall 201  | 18.    |             |  |
|             |            |                |                       |               |        |             |  |
|             |            |                |                       |               |        |             |  |



View looking landside at stumps from a fallen and removed tree, Fall 2018.

| LM Start   | 2.59      | Rating **      | М        | Issue No.    |        | 20           |  |
|------------|-----------|----------------|----------|--------------|--------|--------------|--|
| LM End     | 2.59      | Issue Type +   | En       | Location *   | LS     |              |  |
| Category   | Earthen L | evee           |          | GPS La       | atitud | e/Longitude  |  |
| Category   |           |                |          | Start        |        | End          |  |
| Item       | Encroach  | 38.9057        | 73°      | 38.905773°   |        |              |  |
| item       |           |                |          | -121.577164° |        | -121.577164° |  |
| DWR ID     | DWR_RD1   | 001_04_s _ 201 | 3_20     |              |        |              |  |
|            |           | Comn           | nent Cod | de           |        |              |  |
| BU : Build | ing       |                |          |              |        |              |  |
|            |           | Inspecto       | or Comm  | nent         |        |              |  |
|            |           |                |          |              |        |              |  |
|            |           |                |          |              |        |              |  |
|            |           |                |          |              |        |              |  |



View of Buildings along the toe within the easement of the landside levee.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 2.68         | Rating **     | М  | Issue No.  |    | 152          |
|----------|--------------|---------------|----|------------|----|--------------|
| LM End   | 2.68         | Issue Type +  | En | Location * |    |              |
| Category | Supplemental |               |    |            |    | e/Longitude  |
| Calegory |              |               |    | Start      |    | End          |
| Item     | DWR UCI      | P Field Study |    | 38.90508   | 9° | 38.905089°   |
| пеш      |              |               |    | -121.57847 | 7° | -121.578477° |
| DWR ID   | 22568        |               |    |            |    |              |

# Comment Code

#### Inspector Comment

FS\_ID:41987 DS\_ID:22568 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 05/16/2013 Dense vegetation on slopes should be

cleared. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 4-inch steel swimming pool drainage pipe through the levee, 3 feet below the crown. Open on the waterside (WS) end. Swimming pool on the landside (LS) toe. (Nate Wise). [Additional

Reference(s): DWR Levee Log, 1993].

FS Date: 5/16/2013



LS- only a private swimming pool found.

| LM Start               | 2.70     | Rating **      | M     | Issue No.              |     | 32           |  |  |
|------------------------|----------|----------------|-------|------------------------|-----|--------------|--|--|
| LM End                 | 2.70     | Issue Type +   | En    | Location *             |     | LS           |  |  |
| Category Earthen Levee |          |                |       | GPS Latitude/Longitude |     |              |  |  |
| Calegory               |          |                | Start |                        | End |              |  |  |
| Item                   | Encroach | ments          |       | 38.90489               | 98° | 38.904898°   |  |  |
| item                   |          |                |       | -121.57882             | 9°  | -121.578829° |  |  |
| DWR ID                 | DWR_RD1  | 001_04_f _ 201 | 6_32  |                        |     |              |  |  |
| Comment Code           |          |                |       |                        |     |              |  |  |

#### BU: Building

#### Inspector Comment

## Photo 1 of 1: FA\_2018\_RD1001\_38\_32\_20180918\_00014.jpg



View of shed at landside levee toe in the easement.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start    | 2.76      | Rating **      | М        | Issue No.    |        | 34           |  |
|-------------|-----------|----------------|----------|--------------|--------|--------------|--|
| LM End      | 2.76      | Issue Type +   | En       | Location *   | LS     |              |  |
| Cotogony    | Earthen L | evee           |          | GPS La       | atitud | e/Longitude  |  |
| Category    |           |                |          | Start        |        | End          |  |
| Item        | Encroach  | 38.9043        | 851 °    | 38.904351°   |        |              |  |
| item        |           |                |          | -121.579718° |        | -121.579718° |  |
| DWR ID      | DWR_RD1   | 001_04_f _ 201 | 5_34     |              |        |              |  |
|             |           | Comn           | nent Cod | de           |        |              |  |
| BU : Buildi | ng        |                |          |              |        |              |  |
|             |           |                |          |              |        |              |  |
|             |           | Inspect        | or Comm  | nent         |        |              |  |
|             |           |                |          |              |        |              |  |
|             |           |                |          |              |        |              |  |
|             |           |                |          |              |        |              |  |



View of a shed in the easement of the landside levee.

| LM Start               | 2.80                      | Rating **    | М  | Issue No.              |     | 47            |  |  |
|------------------------|---------------------------|--------------|----|------------------------|-----|---------------|--|--|
| LM End                 | 2.80                      | Issue Type + | Ma | Location *             |     | LS            |  |  |
| Catagory Earthen Levee |                           |              |    | GPS Latitude/Longitude |     |               |  |  |
| Category               |                           | Start        |    | End                    |     |               |  |  |
| Item                   | Trim / Thi                | n Trees      |    | 38.9038                | 96° | 38.903896°    |  |  |
| пеш                    |                           |              |    | -121.5802              | 30° | -121.580230 ° |  |  |
| DWR ID                 | DWR_RD1001_04_s _ 2017_47 |              |    |                        |     |               |  |  |
| Comment Code           |                           |              |    |                        |     |               |  |  |

#### The second second

T1 : Trim trees to at least five feet above ground level.

#### Inspector Comment

Trim limbs 5' for visibility, Fall 2018.

# Photo 1 of 1 : FA\_2018\_RD1001\_38\_47\_20180918\_00027.jpg



View looking downstream where limbs need to be trimmed 5' for visibility.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

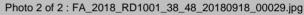
| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start   | 3.16          | Rating **      | М        | Issue No.              |     | 48            |  |  |
|--|---------------|----------------|----------|------------------------|-----|---------------|--|--|
| LM End   | 3.19          | Issue Type +   | En       | Location *             |     | LS            |  |  |
| Category   | Earthen L     | evee           |          | GPS Latitude/Longitude |     |               |  |  |
| Calegory   |               |                |          | Start                  |     | End           |  |  |
| Item   | Encroachments |                |          |                        | 35° | 38.899499°    |  |  |
| пеш  |               |                |          | -121.5839              | 86° | -121.584462 ° |  |  |
| DWR ID   | DWR_RD1       | 001_04_s _ 201 | 7_48     |                        |     |               |  |  |
|  |               | Comn           | nent Cod | de                     |     |               |  |  |
| FE : Fence   | )             |                |          |                        |     |               |  |  |
|  |               |                |          |                        |     |               |  |  |
|  |               | Inspecto       | or Comm  | nent                   |     |               |  |  |
| Fence and landscaping has been placed by the land owner and still exist on levee slope and needs to be removed, Fall 2018. |               |                |          |                        |     |               |  |  |

Photo 1 of 2 : FA\_2018\_RD1001\_38\_48\_20180918\_00028.jpg

View looking downstream landside of fence and landscaping that has been placed by the land owner on levee slope and needs to be removed, Spring 2018.

| LM Start | 3.16 | Rating **    | М  | Issue No.  | 48 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 3.19 | Issue Type + | En | Location * | LS        |





View looking downstream of fence and landscaping that has been placed by the land owner on levee slope and needs to be removed, Fall 2017.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 4.06         | Rating **              | М  | Issue No.  | e No. 51 |               |  |
|----------------------------------|--------------|------------------------|----|------------|----------|---------------|--|
| LM End                           | 4.09         | Issue Type +           | Ma | Location * | LS       |               |  |
| Category                         | evee         | GPS Latitude/Longitude |    |            |          |               |  |
| Calegory                         | Calegory     |                        |    |            |          | End           |  |
| Item                             | Slope Sta    | bility                 |    | 38.8928    | 20°      | 38.892583 °   |  |
| пеш                              |              |                        |    | -121.5980  | 03°      | -121.598575 ° |  |
| DWR ID DWR_RD1001_04_s _ 2017_51 |              |                        |    |            |          |               |  |
|                                  | Comment Code |                        |    |            |          |               |  |

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Continual vehicles driving up levee slope should be monitored and maintained, Spring 2018.



View of continual vehicles driving up levee slope, should be monitored and maintained.

| LM Start                         | 4.60     | Rating **    | М         | Issue No.              |              | 33  |  |
|----------------------------------|----------|--------------|-----------|------------------------|--------------|-----|--|
| LM End                           | 4.65     | Issue Type + | Ma        | Location *             | WS           |     |  |
| Category                         |          |              |           | GPS Latitude/Longitude |              |     |  |
| Calegory                         |          |              |           | Start                  |              | End |  |
| Item                             | 2017 USA | 38.8891      | 27°       | 38.888603°             |              |     |  |
| item                             | DRAFT    |              | -121.6068 | 58°                    | -121.607713° |     |  |
| DWR ID DWR_RD1001_04_f _ 2018_33 |          |              |           |                        |              |     |  |
| Comment Code                     |          |              |           |                        |              |     |  |

# Inspector Comment

2017 Site ID: FHR 7.7 L Status: Eroding New

2017 Field Notes: Erosion along bank appears to be due to rapid drawdown condition. Lower bank cobbles are unraveling. Tree popout

at upstream end. Site History: No Photos

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 5.15      | Rating **              | С  | Issue No.  |     | 55           |
|----------------------------------|-----------|------------------------|----|------------|-----|--------------|
| LM End                           | 12.19     | Issue Type +           | Ма | Location * |     | WS           |
| Category                         | evee      | GPS Latitude/Longitude |    |            |     |              |
| Calegory                         | y         |                        |    | Start      |     | End          |
| Item                             | Vegetatio | n                      |    | 38.88276   | 4 ° | 38.788508°   |
| пеш                              |           |                        |    | -121.61118 | 7 ° | -121.622857° |
| DWR ID DWR_RD1001_04_f _ 2018_55 |           |                        |    |            |     |              |

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation has been mowed in this section, Fall 2018

Photo 1 of 1: FA\_2018\_RD1001\_38\_70\_20180918\_00049.jpg

No Photos



View looking downstream waterside of the slope that is damage by vehicle traffic.

Photo 1 of 1: FA\_2018\_RD1001\_38\_78\_20180918\_00051.jpg

#### Rating \*\* Issue No. 5.18 М 70 LM Start 5.18 Issue Type + Location \* WS LM End Earthen Levee GPS Latitude/Longitude Category Start Fnd Slope Stability 38.882301° 38.882301 Item -121.611296° -121.611296 ° DWR\_RD1001\_04\_f \_ 2017\_70 DWR ID

#### Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Continual vehicles driving up levee slope should be monitored and maintained, Fall 2018.

| LM Start                         | 5.22         | Rating **    | М                      | Issue No.  |              | 78          |  |
|----------------------------------|--------------|--------------|------------------------|------------|--------------|-------------|--|
| LM End                           | 5.22         | Issue Type + | Ma                     | Location * | WS           |             |  |
| Category Earthen Levee           |              |              | GPS Latitude/Longitude |            |              |             |  |
| Category                         |              |              | Start                  |            | End          |             |  |
| Item                             | Slope Sta    | bility       |                        | 38.88170   | 68°          | 38.881768 ° |  |
| item                             |              |              | -121.6113              | 02 °       | -121.611302° |             |  |
| DWR ID DWR_RD1001_04_s _ 2016_78 |              |              |                        |            |              |             |  |
|                                  | Comment Code |              |                        |            |              |             |  |

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

# Inspector Comment

Repair damage on slope cause by vehicle traffic, Fall 2018.



Ruts still there on waterside slope due to vehicles.

Location LS: Land Side

N/A: Not Applicable WS: Water Side

Acceptable

U : Unacceptable

N : Not Inspected/Rated Minimally Acceptable C : Corrected

+ Issue Type Ma: Maintenance Deficiency

Ob : Design & System Obsolescence En: Enforcement

A/W : Acceptable but Monitor & Maintain

CR : Crown

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start    | 5.55              | Rating **      | A/W       | Issue No.   |               | 79           |   |
|-------------|-------------------|----------------|-----------|-------------|---------------|--------------|---|
| LM End      | 5.55              | Issue Type +   | Ma        | Location *  |               | WS           |   |
| Category    | Earthen Levee     |                |           |             | atitud        | le/Longitude |   |
| Calegory    |                   |                |           | Start       |               | End          |   |
| Item        | Vegetatio         | n              |           | 38.8772     | 56°           | 38.877256    | 0 |
| item        |                   |                |           |             | -121.613073 ° |              | ٥ |
| DWR ID      | DWR_RD1           | 001_04_s _ 201 | 6_79      |             |               |              |   |
|             |                   | Comn           | nent Cod  | de          |               |              |   |
| V4 : Elderl | perries are       | blocking visib | ility and | flood fight | сара          | ability.     |   |
|             |                   |                |           |             |               |              |   |
|             | Inspector Comment |                |           |             |               |              |   |
|             |                   |                |           |             |               |              |   |
|             |                   |                |           |             |               |              |   |
|             |                   |                |           |             |               |              |   |
|             |                   |                |           |             |               |              |   |

No Photos

| LM Start | 5.61      | Rating **      | A/W                    | Issue No.  |     | 35 |   |
|----------|-----------|----------------|------------------------|------------|-----|----|---|
| LM End   |           | Issue Type +   | Ma                     | Location * |     | WS |   |
| Category | Suppleme  | ental          | GPS Latitude/Longitude |            |     |    |   |
| Calegory |           |                | Start                  |            | End |    |   |
| Item     | 2017 Stor | m Damage       |                        | 38.8763    | 74° |    | 0 |
| пеш      |           |                | -121.613425 °          |            |     | 0  |   |
| DWR ID   | DWR_RD1   | 001_04_f _ 201 | 7_35                   |            |     |    |   |

# Inspector Comment

Comment Code

Levee Evaluation Comments

Description: Site ID No:139

Site Designation:LMA-19 Repair Type: Erosion Rating:Area of Concern Field Date: 6/6/2017

Notes: Several small erosion sites along 2 miles.



LS : Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence En: Enforcement

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | <b>5.61</b> Rating ** A/W |              | Issue No. | ssue No. 35 (cont |      |     |   |
|----------------------------------|---------------------------|--------------|-----------|-------------------|------|-----|---|
| LM End                           |                           | Issue Type + | Ma        | Location *        |      | WS  |   |
| Category                         | GPS Latitude/Longitude    |              |           |                   |      |     |   |
| Calegory                         | Category                  |              |           |                   |      | End |   |
| Item                             | 2017 Stor                 | m Damage     |           | 38.87637          | '4 ° |     | 0 |
| пеш                              |                           |              |           | -121.61342        | 25°  |     | 0 |
| DWR ID DWR_RD1001_04_f _ 2017_35 |                           |              |           |                   |      |     |   |
|                                  | Comment Code              |              |           |                   |      |     |   |

#### Inspector Comment

Levee Evaluation Comments

Description: Site ID No:139

Site Designation:LMA-19 Repair Type: Erosion Rating:Area of Concern Field Date:6/6/2017

Notes: Several small erosion sites along 2 miles.

| LM Start | 5.61 | Rating **    | A/W | Issue No.  | 35 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End   |      | Issue Type + | Ma  | Location * | WS        |



Photo 3 of 3: LEVAL\_FA\_2018\_139\_1155.jpg



CR : Crown

A/W : Acceptable but Monitor & Maintain

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                               | 5.71      | Rating **      | М        | Issue No.  |        | 27           |
|--|-----------|----------------|----------|------------|--------|--------------|
| LM End                                 | 5.71      | Issue Type +   | En       | Location * |        | LS           |
| Category                               | Earthen L | evee           |          | GPS La     | atitud | e/Longitude  |
| Calegory                               |           |                |          | Start      |        | End          |
| Item                                   | Encroach  | ments          |          | 38.8749    | 84°    | 38.874984°   |
| пеш                                    |           |                |          | -121.6142  | 242°   | -121.614242° |
| DWR ID                                 | DWR_RD1   | 001_04_s _ 201 | 15_27    |            |        |              |
|  |           | Comn           | nent Cod | de         |        |              |
| PO : Pole                              |           |                |          |            |        |              |
|  |           |                |          |            |        |              |
| Inspector Comment                      |           |                |          |            |        |              |
| Remove pole on levee slope, Fall 2018. |           |                |          |            |        |              |
|  |           |                |          |            |        |              |
|  |           |                |          |            |        |              |



View of pole on landside, no lines connected to it.

| LM Start     | 5.78         | Rating **              | М  | Issue No.  | 153 |              |  |
|--------------|--------------|------------------------|----|------------|-----|--------------|--|
| LM End       | 5.78         | Issue Type +           | En | Location * |     |              |  |
| Category     | ental        | GPS Latitude/Longitude |    |            |     |              |  |
| Calegory     |              | Start                  |    | End        |     |              |  |
| Item         | DWR UCI      | P Field Study          |    | 38.8741    | 13° | 38.874113°   |  |
| пеш          |              |                        |    | -121.6148  | 46° | -121.614846° |  |
| DWR ID 22573 |              |                        |    |            |     |              |  |
|              | Comment Code |                        |    |            |     |              |  |

#### Inspector Comment

FS\_ID:14604 DS\_ID:22573 EP\_NO: 10389

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: \*REPLACEMENT\* 12-inch irrigation discharge pipe of an unknown material through the levee, 10 feet below the crown. 30-horsepower slant pump on the riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 36-inch concrete standpipe at the LS toe. Pipe installed by USACE in 1963. Switch panel and service pole at the LS toe. (Replacement of a 12-inch pipe and a 30-horsepower slant pump authorized under Permit No. 10389, 1974 - Pluma Orchards). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/16/2013

#### Photo 1 of 3: UCIP\_FA\_2018\_14604\_24107.jpg



WS- slanted pump station on steel platform on levee berm.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 5.78     | Rating **              | М  | Issue No.  |      | 153 (cont)   |
|----------|----------|------------------------|----|------------|------|--------------|
| LM End   | 5.78     | Issue Type +           | En | Location * |      |              |
| Category | Suppleme | GPS Latitude/Longitude |    |            |      |              |
| Calegory |          |                        |    |            |      | End          |
| Item     | DWR UCI  | P Field Study          |    | 38.8741    | 13°  | 38.874113°   |
| пеш      |          |                        |    | -121.6148  | 46 ° | -121.614846° |
| DWR ID   | 22573    |                        |    |            |      | ·            |

# Inspector Comment

Comment Code

FS\_ID:14604 DS\_ID:22573 EP\_NO: 10389

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: \*REPLACEMENT\* 12-inch irrigation discharge pipe of an unknown material through the levee, 10 feet below the crown. 30-horsepower slant pump on the riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 36-inch concrete standpipe at the LS toe. Pipe installed by USACE in 1963. Switch panel and service pole at the LS toe. (Replacement of a 12-inch pipe and a 30-horsepower slant pump authorized under Permit No. 10389, 1974 - Pluma Orchards). [Additional Reference(s): DWR Levee Log, 1993].

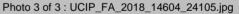
ES Dato: 5/16/2012

FS Date: 5/16/2013

| LM Start | 5.78 | Rating **    | М  | Issue No.  | 153 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 5.78 | Issue Type + | En | Location * |            |



WS- inlet pipe on the river bank.





Enter photo 3 description or comment here.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 5.80         | Rating **                 | A/W    | Issue No.  | 28           |             |   |
|----------------------------------|--------------|---------------------------|--------|------------|--------------|-------------|---|
| LM End                           | 5.93         | Issue Type +              | Ma     | Location * | WS           |             |   |
| Category                         | Suppleme     | ental                     | GPS La | titud      | le/Longitude |             |   |
| Category                         |              | Start                     |        | End        |              |             |   |
| Item                             |              | 017 USACE Erosion Survey, |        |            | 13 °         | 38.872373   | 0 |
| пеш                              | DRAFT        |                           |        | -121.6153  | 30°          | -121.616504 | 0 |
| DWR ID DWR_RD1001_04_f _ 2018_28 |              |                           |        |            |              |             |   |
|                                  | Comment Code |                           |        |            |              |             |   |

#### Inspector Comment

2017 Site ID: FHR 6.6 L

Status: Eroding

2017 Field Notes: Sandy bank slope is unraveling.

Site History: 2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2013 - Scallops from tree popouts no longer visible on site. Minor new erosion at the middle of the bank. 2015 - Fres erosion from human usage.



USACE 2013 Photo #1

| LM Start                         | 6.39                   | Rating **    | U     | Issue No.  | 17  |              |  |
|----------------------------------|------------------------|--------------|-------|------------|-----|--------------|--|
| LM End                           | 6.46                   | Issue Type + | En    | Location * | LS  |              |  |
| Category                         | Category Earthen Levee |              |       |            |     | e/Longitude  |  |
| Calegory                         |                        |              | Start |            | End |              |  |
| Item                             | Vegetatio              | n            |       | 38.8660    | 32° | 38.865195°   |  |
| -121.61948                       |                        |              |       |            |     | -121.620017° |  |
| DWR ID DWR_RD1001_04_s _ 2012_17 |                        |              |       |            |     |              |  |
|                                  | Comment Code           |              |       |            |     |              |  |

V6: Landscaping

#### Inspector Comment

Home owners landscaping should be removed, Fall 2018.

# Photo 1 of 1: FA\_2018\_RD1001\_38\_17\_20180918\_00003.jpg



View of landscaping on the landside shoulder and slope looking downstream.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 6.42 Rating ** U Issue No. |               |         |            | 18           |               |  |
|----------------------------------|----------------------------|---------------|---------|------------|--------------|---------------|--|
| LM End                           | 6.51                       | Issue Type +  | Ма      | Location * | WS           |               |  |
| Category                         | Suppleme                   | ental         | GPS La  | titud      | le/Longitude |               |  |
| Category                         |                            |               |         | Start      |              | End           |  |
| Item                             |                            | ACE Erosion S | Survey, | 38.86587   | '5 °         | 38.864706°    |  |
| пеш                              | DRAFT                      |               |         | -121.61998 | 33°          | -121.620813 ° |  |
| DWR ID DWR_RD1001_04_f _ 2018_18 |                            |               |         |            |              |               |  |
|                                  | Comment Code               |               |         |            |              |               |  |

#### Inspector Comment

2017 Site ID: FHR 6.0 L

Status: Critical

2017 Field Notes: Upgraded to critical, entire bank slope is slumping,

with near vertical face

Site History: 2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2016 - Recent large slope failure observed.



USACE 2013 Photo #1

| LM Start | 6.57     | Rating **                  | A/W  | Issue No.              |     | 15            |
|----------|----------|----------------------------|------|------------------------|-----|---------------|
| LM End   | 6.77     | Issue Type +               | Ма   | Location *             |     | WS            |
| Category | Suppleme | ental                      |      | GPS Latitude/Longitude |     |               |
| Calegory |          |                            |      |                        |     | End           |
| Item     |          | 2017 USACE Erosion Survey, |      |                        | 16° | 38.861558°    |
| item     | DRAFT    |                            |      | -121.62138             | 38° | -121.623316 ° |
| DWR ID   | DWR_RD1  | 001_04_f _ 201             | 8_15 |                        |     |               |

# Inspector Comment

Comment Code

2017 Site ID: FHR 5.8 L

Status: Eroding

2017 Field Notes: slope is not stable enough to maintain vegetation

growth, new erosion

Site History: 2011 - Large slumped sections on the lower bank. 2012 -

New cracks observed.

#### Photo 1 of 1: FA\_2018\_RD1001\_38\_15\_20181114\_00030.jpg



USACE 2013 Photo #1

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

|                                  |              | M             | Issue No.              |   | 40  |  |
|----------------------------------|--------------|---------------|------------------------|---|---|--|
| 7.06                             | Issue Type + | Ма            | Location *             |   | WS  |  |
| Catagonia Earthen Levee          |              |               | GPS Latitude/Longitude |   |   |  |
| Category                         |              |               |                        |   | End   |  |
| Slope Stability                  |              |               | 38.857797              | , 0   | 38.857797°  |  |
|                                  |              |               | -121.625912            | °   | -121.625912°  |  |
| DWR ID DWR_RD1001_04_s _ 2018_40 |              |               |                        |   |   |  |
| 3                                | arthen L     | Carthen Levee | Carthen Levee          | Carthen Levee GPS Latin Start 38.857797 -121.625912 | GPS Latitud  Start  Slope Stability  38.857797  -121.625912 |  |

#### Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Repair tire ruts on levee slope.



View looking downstream waterside at deep tire ruts in levee slope.

| LM Start               | 7.08       | Rating **      | A/W  | Issue No.              |     | 52           |  |
|------------------------|------------|----------------|------|------------------------|-----|--------------|--|
| LM End                 | 7.08       | Issue Type +   | Ma   | Location *             |     | WS           |  |
| Category Earthen Levee |            |                |      | GPS Latitude/Longitude |     |              |  |
|                        |            |                |      | Start                  |     | End          |  |
| Item                   | Vegetation |                |      | 38.8575                | 74° | 38.857574°   |  |
| item                   |            |                |      | -121.626083 °          |     | -121.626083° |  |
| DWR ID                 | DWR_RD1    | 001_04_s _ 201 | 7_52 |                        |     | ·            |  |

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

#### Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

No Photos

| LM Start               | 7.32    | Rating **      | С                      | Issue No.  |           | 45          |   |
|------------------------|---------|----------------|------------------------|------------|-----------|-------------|---|
| LM End                 | 7.32    | Issue Type +   | Ма                     | Location * |           | LS          |   |
| Category Earthen Levee |         |                | GPS Latitude/Longitude |            |           |             |   |
| Calegory               |         |                |                        | Start      | End       |             |   |
| Trim / Thin Trees      |         |                | 38.8543                | 24°        | 38.854324 | 0           |   |
| item                   |         |                |                        | -121.6279  | 70°       | -121.627970 | 0 |
| DWR ID                 | DWR_RD1 | 001_04_s _ 201 | 8_45                   |            |           |             |   |
|                        |         | _              | _                      |            |           |             |   |

Comment Code

T1: Trim trees to at least five feet above ground level.

#### Inspector Comment

Limbs are trimmed for access and visibility, Fall 2018.

No Photos

\* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence

En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 7.47     | Rating **                  | U  | Issue No.              |      | 14            |  |
|----------------------------------|----------|----------------------------|----|------------------------|------|---------------|--|
| LM End                           | 7.79     | Issue Type +               | Ma | Location *             | WS   |               |  |
| Supplemental                     |          |                            |    | GPS Latitude/Longitude |      |               |  |
| Calegory                         | Category |                            |    |                        |      | End           |  |
| Item                             |          | 2017 USACE Erosion Survey, |    |                        |      | 38.848004°    |  |
| пеш                              | DRAFT    |                            |    |                        | 31 ° | -121.630873 ° |  |
| DWR ID DWR_RD1001_04_f _ 2018_14 |          |                            |    |                        |      |               |  |
| Comment Code                     |          |                            |    |                        |      |               |  |

#### Inspector Comment

2017 Site ID: FHR 5.0 L

Status: Critical

2017 Field Notes: Upgraded to critical, significant new erosion, entire bank slope is vertical with non cohesive soils.

Site History: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012 - Site extended on the upstream end, new tree pop-out, and bank erosion continues to worsen. 2013 - Minor new erosion at the toe and top of bank.



USACE 2013 Photo #1

| LM Start                         | 7.60                  | Rating **    | A/W | Issue No.              |      | 36           |  |
|----------------------------------|-----------------------|--------------|-----|------------------------|------|--------------|--|
| LM End                           | 7.60                  | Issue Type + | Ма  | Location *             | WS   |              |  |
| Category Earthen Levee           |                       |              |     | GPS Latitude/Longitude |      |              |  |
|                                  |                       |              |     | Start                  |      | End          |  |
| Item                             | Erosion / Bank Caving |              |     | 38.85052               | 21 ° | 38.850521 °  |  |
| item                             |                       |              |     | -121.6294              | 23 ° | -121.629423° |  |
| DWR ID DWR_RD1001_04_f _ 2015_36 |                       |              |     |                        |      |              |  |
| Comment Code                     |                       |              |     |                        |      |              |  |

E2: Schedule repair of erosion site prior to the next inspection.

#### Inspector Comment

Ramp has vertical cut into the levee prism.

# Photo 1 of 1: FA\_2018\_RD1001\_38\_36\_20180918\_00019.jpg



View of vertical cut for ramp in the landside levee slope looking upstream.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 8.48      | Rating **    | A/W                    | Issue No.  |     | 38  |   |  |
|----------------------------------|-----------|--------------|------------------------|------------|-----|-----|---|--|
| LM End                           |           | Issue Type + | Ob                     | Location * |     |     |   |  |
| Category                         |           |              | GPS Latitude/Longitude |            |     |     |   |  |
| Calegory                         | Category  |              |                        | Start      |     | End |   |  |
| Item                             | 2017 Stor | m Damage     | 38.83800               | °          |     | 0   |   |  |
| пеш                              |           |              |                        | -121.63305 | ı ° |     | 0 |  |
| DWR ID DWR_RD1001_04_f _ 2017_38 |           |              |                        |            |     |     |   |  |
|                                  |           |              |                        |            |     |     |   |  |

Comment Code

#### Inspector Comment

Levee Evaluation Comments

Description: Site ID No:140

Site Designation:LMA-20 Repair Type: Seepage Rating:Serious Field Date:8/31/2017

Notes: Was recommended to receive additional rock during flood fight by Wilbur Huong but resources weren't available at the time. 4 seepage berms were installed during the storms, but more are needed between them

No Photos

| LM Start | 8.57         | Rating **      | A/W     | Issue No.     |        | 13            |
|----------|--------------|----------------|---------|---------------|--------|---------------|
| LM End   | 8.97         | Issue Type +   | Ma      | Location *    |        | WS            |
| Category | Supplemental |                |         | GPS La        | atitud | le/Longitude  |
| Calegory |              |                |         | Start         |        | End           |
| Item     |              | CE Erosion S   | Survey, | 38.8369       | 66°    | 38.831498 °   |
| item     | DRAFT        |                |         | -121.634128 ° |        | -121.636371 ° |
| DWR ID   | DWR_RD1      | 001_04_f _ 201 | 8_13    |               |        |               |

# Inspector Comment

Comment Code

2017 Site ID: FHR 3.8 L

Status: Eroding

2017 Field Notes: New erosion along lower slope

Site History: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2013 - New erosion observed at bank toe. Trees on site now have exposed roots.

# Photo 1 of 1: FA\_2018\_RD1001\_38\_13\_20181114\_00012.jpg



USACE 2013 Photo #1

Location + Issue Type Ma : Maintenance Deficiency N/A: Not Applicable LS: Land Side A: Acceptable N : Not Inspected/Rated WS: Water Side Minimally Acceptable C : Corrected Ob : Design & System Obsolescence U : Unacceptable A/W : Acceptable but Monitor & Maintain En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start               | 8.65                      | Rating **    | A/W | Issue No.  |        | 12            |
|------------------------|---------------------------|--------------|-----|------------|--------|---------------|
| LM End                 | 8.72                      | Issue Type + | Ма  | Location * |        | LS            |
| Category Earthen Levee |                           |              |     | GPS La     | atitud | e/Longitude   |
| Category               |                           |              |     | Start      |        | End           |
| ltom                   | Vegetatio                 | n            |     | 38.8357    | 66 °   | 38.834778 °   |
| пеш                    | Item S                    |              |     | -121.6339  | 66 °   | -121.634316 ° |
| DWR ID                 | DWR_RD1001_04_s _ 2012_12 |              |     |            |        |               |
| Comment Code           |                           |              |     |            |        |               |

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

| Photo 1 of 3: UCIP_ | FA | 2018 | 14563 | 24002.jpg |
|---------------------|----|------|-------|-----------|

No Photos



WS- slanted pipe in steel structure on river bank.

| LM Start | 9.15   | Rating **      | М  | Issue No.              |     | 154          |  |
|----------|--------|----------------|----|------------------------|-----|--------------|--|
| LM End   | 9.15   | Issue Type +   | En | Location *             |     |              |  |
| Category |        |                |    | GPS Latitude/Longitude |     |              |  |
| Calegory |        |                |    | Start                  |     | End          |  |
| Item     | DWR UC | IP Field Study |    | 38.8288                | 93° | 38.828893°   |  |
| пеш      |        |                |    | -121.6372              | 19° | -121.637219° |  |
| DWR ID   | 22577  |                |    |                        |     |              |  |

# Comment Code

#### Inspector Comment

FS\_ID:14563 DS\_ID:22577 EP\_NO: 12828

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - needs detailed investigation for road

surface cracks (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 16-inch asphalt coated steel irrigation discharge pipe through the levee, 4.3 feet below the crown. 30horsepower slant pump and platform on the riverbank. (16-inch irrigation discharge pipe and 30-horsepower slant pump authorized under Permit No. 12828, 1979. It is assumed that this 16-inch pipe replaces the abandoned 10-inch steel pipe referenced in the O&M Manual). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.3), abandoned 10inch steel pipe referenced]. FS Date: 5/16/2013

N/A: Not Applicable LS: Land Side WS: Water Side

Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 9.15    | Rating **     | М  | Issue No. 1            |     | 154 (cont)   |
|----------|---------|---------------|----|------------------------|-----|--------------|
| LM End   | 9.15    | Issue Type +  | En | Location *             |     |              |
| Category |         |               |    | GPS Latitude/Longitude |     |              |
| Calegory |         |               |    | Start                  |     | End          |
| Item     | DWR UCI | P Field Study |    | 38.8288                | 93° | 38.828893 °  |
| пеш      |         |               |    | -121.6372              | 19° | -121.637219° |
| DWR ID   | 22577   |               |    |                        |     | ·            |

# Inspector Comment

Comment Code

FS\_ID:14563 DS\_ID:22577 EP\_NO: 12828

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - needs detailed investigation for road

surface cracks (P. Amatya - DWR UCIP)

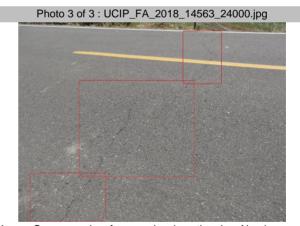
FIELD\_STRUCT\_DESC: 16-inch asphalt coated steel irrigation discharge pipe through the levee, 4.3 feet below the crown. 30-horsepower slant pump and platform on the riverbank. (16-inch irrigation discharge pipe and 30-horsepower slant pump authorized under Permit No. 12828, 1979. It is assumed that this 16-inch pipe replaces the abandoned 10-inch steel pipe referenced in the O&M Manual). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.3), abandoned 10-inch steel pipe referenced].

FS Date: 5/16/2013

| LM Start | 9.15 | Rating **    | М  | Issue No.  | 154 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 9.15 | Issue Type + | En | Location * |            |



WS- inlet pipe and main pipe in pump station on river bank.



Levee Crown- road surface cracks along the pipe. Needs more investigation.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start     | 9.41                      | Rating **         | A/W | Issue No.  |       | 43           |   |
|--------------|---------------------------|-------------------|-----|------------|-------|--------------|---|
| LM End       |                           | Issue Type +      | Ob  | Location * |       |              |   |
| Category     |                           |                   |     | GPS La     | tituc | le/Longitude |   |
| Calegory     |                           |                   |     | Start      |       | End          |   |
| Item         | 2017 Stor                 | 2017 Storm Damage |     |            | )1 °  |              | 0 |
| пеш          |                           |                   |     | -121.63914 | 4 °   |              | 0 |
| DWR ID       | DWR_RD1001_04_f _ 2017_43 |                   |     |            |       |              |   |
| Comment Code |                           |                   |     |            |       |              |   |

Enu

#### Inspector Comment

Levee Evaluation Comments

Description:
Site ID No:163
Site Designation:247-2
Repair Type: Seepage

Rating: Field Date: Notes:

| LM Start | 9.44    | Rating **      | М      | Issue No.   | 155 |               |
|----------|---------|----------------|--------|-------------|-----|---------------|
| LM End   | 9.44    | Issue Type +   | En     | Location *  |     |               |
| Category | ental   | GPS La         | atitud | e/Longitude |     |               |
| Category |         |                |        | Start       |     | End           |
| Item     | DWR UCI | IP Field Study |        | 38.8251     | 07° | 38.825107°    |
| пеш      |         |                |        | -121.6393   | 69° | -121.639369 ° |
| DWR ID   | 22592   |                |        |             |     |               |

### Inspector Comment

Comment Code

FS\_ID:14544 DS\_ID:22592 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - seems abandoned pipe crossing.needs properly abandoned.- a 48" steel tank not found on landside.

(P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Pump on the riverbank. Pipe discharges into a 48-inch steel tank at the landside (LS) toe. (Johnston). [Additional Reference(s): DWR Levee Log, 1993. USACE

Sacramento O&M Manual 141.1, August 1955, (RM 3.1)].

FS Date: 5/16/2013

#### Photo 1 of 3: UCIP\_FA\_2018\_14544\_23966.jpg

No Photos



WS- damaged pipe with holes, cracks on levee slope. River bank is not visible due to dense vegetation (top)

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start              | 9.44    | Rating **     | М  | Issue No. 155 (co |       | 155 (cont)  |   |
|-----------------------|---------|---------------|----|-------------------|-------|-------------|---|
| LM End                | 9.44    | Issue Type +  | En | Location *        |       |             |   |
| Category Supplemental |         |               |    | GPS La            | titud | e/Longitude |   |
| Calegory              |         |               |    | Start             |       | End         |   |
| Item                  | DWR UCI | P Field Study |    | 38.82510          | 7°    | 38.825107   | 0 |
| пеш                   |         |               |    | -121.63936        | 9°    | -121.639369 | 0 |
| DWR ID                | 22592   |               |    |                   |       |             |   |

#### Inspector Comment

Comment Code

FS\_ID:14544 DS\_ID:22592 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - seems abandoned pipe crossing.needs properly abandoned.- a 48" steel tank not found on landside.

(P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Pump on the riverbank. Pipe discharges into a 48-inch steel tank at the landside (LS) toe. (Johnston). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.1)].

FS Date: 5/16/2013

| LM Start | 9.44 | Rating **    | М  | Issue No.  | 155 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 9.44 | Issue Type + | En | Location * |            |



WS- abandoned damaged pipe with holes, cracks on levee slope.

Photo 3 of 3: UCIP\_FA\_2018\_14544\_23964.jpg



LS- overview of landside, steel pipe on levee slope.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 9.52      | Rating **    | М        | Issue No.  |             | 80           |  |  |  |
|----------------------------------|-----------|--------------|----------|------------|-------------|--------------|--|--|--|
| LM End                           | 9.52      | Issue Type + | En       | Location * |             | WS           |  |  |  |
| Category                         | Earthen L | evee         | GPS La   | atitud     | e/Longitude |              |  |  |  |
| Category                         |           |              |          | Start      |             | End          |  |  |  |
| Item                             | Encroach  | ments        |          | 38.8239    | 11°         | 38.823911 °  |  |  |  |
| пеш                              |           |              |          | -121.6398  | 69°         | -121.639869° |  |  |  |
| DWR ID DWR_RD1001_04_s _ 2016_80 |           |              |          |            |             |              |  |  |  |
|                                  |           | Comn         | nent Cod | de         |             |              |  |  |  |
| PO : Pole                        |           |              |          |            |             |              |  |  |  |
|                                  |           |              |          |            |             |              |  |  |  |
|                                  |           | Inspecto     | or Comm  | nent       |             |              |  |  |  |
|                                  |           |              |          |            |             |              |  |  |  |
|                                  |           |              |          |            |             |              |  |  |  |
|                                  |           |              |          |            |             |              |  |  |  |
|                                  |           |              |          |            |             |              |  |  |  |



View of pole on waterside crown.

| LM Start | 9.58          | Rating **      | С    | Issue No.              |      | 82            |
|----------|---------------|----------------|------|------------------------|------|---------------|
| LM End   | 9.58          | Issue Type +   | En   | Location *             |      | LS            |
| Catagory | Earthen Levee |                |      | GPS Latitude/Longitude |      |               |
| Category |               | Start          |      | End                    |      |               |
| Item     | Encroach      | ments          |      | 38.8230                | 53°  | 38.823053 °   |
| iteiii   |               |                |      | -121.6399              | 11 ° | -121.639911 ° |
| DWR ID   | DWR_RD1       | 001_04_s _ 201 | 6_82 |                        |      |               |

Comment Code

DE: Debris

#### Inspector Comment

Old fence post pile at landside levee toe has been removed, Fall 2018.

No Photos

| LM Start | 9.61      | Rating **      | М    | Issue No.  |        | 37           |
|----------|-----------|----------------|------|------------|--------|--------------|
| LM End   | 9.61      | Issue Type +   | En   | Location * |        | WS           |
| Category | Earthen L | evee           |      | GPS La     | atitud | e/Longitude  |
| Calegory |           |                |      | Start      |        | End          |
| Item     | Vegetatio | n              |      | 38.8227    | 25°    | 38.822725°   |
| пеш      |           |                |      | -121.6400  | 18°    | -121.640018° |
| DWR ID   | DWR_RD1   | 001_04_f _ 201 | 5_37 |            |        |              |

Comment Code

V6 : Landscaping

#### Inspector Comment

Oleanders in front of a house on the waterside need to be removed, Fall 2018.

### Photo 1 of 1 : FA\_2018\_RD1001\_38\_37\_20180918\_00020.jpg



View looking downstream waterside of landscaping vegetation encroaching onto the levee crown.

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

A/W : Acceptable but Monitor & Maintain En : En

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 9.92     | Rating **      | М  | Issue No.              |    | 156           |
|----------|----------|----------------|----|------------------------|----|---------------|
| LM End   | 9.92     | Issue Type +   | En | Location *             |    |               |
| Category | Suppleme | mental         |    | GPS Latitude/Longitude |    | e/Longitude   |
| Calegory |          |                |    | Start                  |    | End           |
| Item     | DWR UC   | IP Field Study |    | 38.81834               | 1° | 38.818341 °   |
| пеш      |          |                |    | -121.63889             | 0° | -121.638890 ° |
| DWR ID   | 22578    |                |    |                        |    | ·             |

#### Inspector Comment

Comment Code

FS\_ID:14627 DS\_ID:22578 EP\_NO: 3297

Repair Type: Non-Urgent Crossing Status: Found

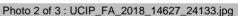
UCIP Comments: 05/16/2013 - needs properly abandoned.-dismantled standpipe found on LS levee slope (P. Amatya - DWR UCIP) FIELD\_STRUCT\_DESC: 12-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. Slant pump mounted on a steel structure on the riverbank. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a 24-inch concrete standpipe at the LS toe. (Pipe and pump authorized under Permit No. 3297, 1960 - Albert Linggi). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/16/2013

| LM Start | 9.92 | Rating **    | М  | Issue No.  | 156 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 9.92 | Issue Type + | En | Location * |            |



WS- exposed pipe on levee slope and pump station in river bank.





WS- exposed pipe on levee slope.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 9.92         | Rating **     | М     | Issue No.              |     | 156 (cont)  |   |
|----------|--------------|---------------|-------|------------------------|-----|-------------|---|
| LM End   | 9.92         | Issue Type +  | En    | Location *             |     |             |   |
| Catagony | Supplemental |               |       | GPS Latitude/Longitude |     |             |   |
| Category | Category     |               | Start |                        | End |             |   |
| Item     | DWR UCI      | P Field Study |       | 38.81834               | 1 ° | 38.818341   | 0 |
| пеш      |              |               |       | -121.63889             | 0°  | -121.638890 | 0 |
| DWR ID   | 22578        |               |       |                        |     |             |   |

#### Inspector Comment

Comment Code

FS ID:14627 DS\_ID:22578 EP\_NO: 3297

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - needs properly abandoned.-

dismantled standpipe found on LS levee slope (P. Amatya - DWR UCIP) FIELD\_STRUCT\_DESC: 12-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. Slant pump mounted on a steel structure on the riverbank. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a 24-inch concrete standpipe at the LS toe. (Pipe and pump authorized under Permit No. 3297, 1960 - Albert Linggi). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/16/2013



WS- abandoned slanted pump station in steel pipe structure in river bank.

| LM Start | 9.97      | Rating **      | М    | Issue No.  |                        | 66           |  |
|----------|-----------|----------------|------|------------|------------------------|--------------|--|
| LM End   | 9.97      | Issue Type +   | En   | Location * |                        | LS           |  |
| Category | Earthen L | then Levee     |      |            | GPS Latitude/Longitude |              |  |
| Calegory |           |                |      | Start      |                        | End          |  |
| Item     | Encroach  | ments          |      | 38.8176    | 59°                    | 38.817659°   |  |
| пеш      |           |                |      |            |                        | -121.638404° |  |
| DWR ID   | DWR_RD1   | 001_04_f _ 201 | 6_66 |            |                        |              |  |

#### Comment Code

TR: Tree or limb

#### Inspector Comment

Downed tree pushed up to levee toe needs to be removed, Fall 2018.

#### Photo 1 of 1: FA\_2018\_RD1001\_38\_66\_20180918\_00043.jpg



View of large tree pushed up to the landside levee toe.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 10.14   | Rating **     | М          | Issue No.              |             | 157       |   |
|----------|---------|---------------|------------|------------------------|-------------|-----------|---|
| LM End   | 10.14   | Issue Type +  | En         | Location *             |             |           |   |
| Category |         |               |            | GPS Latitude/Longitude |             |           |   |
| Category |         | Start         |            | End                    |             |           |   |
| Item     | DWR UCI | P Field Study |            | 38.81553               | 0 °         | 38.815530 | 0 |
| пеш      |         |               | -121.63691 | 8 °                    | -121.636918 | 0         |   |
| DWR ID   | 22572   |               |            |                        |             |           |   |

#### Inspector Comment

Comment Code

FS\_ID:41723 DS\_ID:22572 EP\_NO: 1881

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - burried slide gate found on WS slope.- concrete box at the landward toe not found. (P. Amatya - DWR

UCIP)

FIELD\_STRUCT\_DESC: 18-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Slant pump mounted on a pile structure on the riverbank. Gate valve on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a concrete box at the LS toe. (18-inch steel discharge pipe and slant pump authorized under Permit No. 1881, 1954 - L. G. Kipp and R. B. Reith). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/16/2013

| LM Start | 10.14 | Rating **    | М  | Issue No.  | 157 (cont) |  |
|----------|-------|--------------|----|------------|------------|--|
| LM End   | 10.14 | Issue Type + | En | Location * |            |  |



WS- sland pump on steel structure in river bank.

Photo 2 of 3: UCIP\_FA\_2018\_41723\_23976.jpg



WS- main steel pipe on levee surface (without paint).

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 10.14    | Rating **     | M  | Issue No.              |     | 157 (cont)   |
|----------|----------|---------------|----|------------------------|-----|--------------|
| LM End   | 10.14    | Issue Type +  | En | Location *             |     |              |
| Catagony | Category |               |    | GPS Latitude/Longitude |     |              |
| Calegory | Category |               |    | Start                  |     | End          |
| Item     | DWR UCI  | P Field Study |    | 38.81553               | 0°  | 38.815530°   |
| пеш      |          |               |    |                        | 8 ° | -121.636918° |
| DWR ID   | 22572    |               |    |                        |     |              |

# Comment Code

#### Inspector Comment

FS\_ID:41723 DS\_ID:22572 EP\_NO: 1881

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - burried slide gate found on WS slope.- concrete box at the landward toe not found. (P. Amatya - DWR

UCIP)

FIELD\_STRUCT\_DESC: 18-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Slant pump mounted on a pile structure on the riverbank. Gate valve on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a concrete box at the LS toe. (18-inch steel discharge pipe and slant pump authorized under Permit No. 1881, 1954 - L. G. Kipp and R. B. Reith). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/16/2013



WS- gate valve on levee slope.

| LM Start | 10.60                          | Rating **    | M          | Issue No.  | 30                     |            |  |  |
|----------|--------------------------------|--------------|------------|------------|------------------------|------------|--|--|
| LM End   | 10.60                          | Issue Type + | En         | Location * | LS                     |            |  |  |
| Category | Category Earthen Levee         |              |            |            | GPS Latitude/Longitude |            |  |  |
| Category |                                |              |            | Start      |                        | End        |  |  |
| Item     | Encroach                       | ments        |            | 38.80925   | 7°                     | 38.809257° |  |  |
| item     |                                |              | -121.63390 | 9°         | -121.633909°           |            |  |  |
| DWR ID   | R ID DWR_RD1001_04_s _ 2013_30 |              |            |            |                        |            |  |  |
|          | Comment Code                   |              |            |            |                        |            |  |  |

RW: Retaining Wall

Inspector Comment

#### Photo 1 of 1: FA 2018 RD1001 38 30 20180918 00011.jpg



A retaining wall is within the profile of the slope.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start                         | 10.60     | Rating **    | М        | Issue No.     |        | 29            |
|----------------------------------|-----------|--------------|----------|---------------|--------|---------------|
| LM End                           | 10.60     | Issue Type + | En       | Location *    |        | LS            |
| Category                         | Earthen L | evee         |          | GPS La        | atitud | e/Longitude   |
| Calegory                         |           |              | Start    |               | End    |               |
| Encroachments                    |           |              |          | 38.8092       | 256°   | 38.809256 °   |
| item                             |           |              |          | -121.633908 ° |        | -121.633908 ° |
| DWR ID DWR_RD1001_04_s _ 2013_29 |           |              |          |               |        |               |
|                                  |           | Comn         | nent Cod | de            |        |               |
| BU : Buildi                      | ng        |              |          |               |        |               |
|                                  |           |              |          |               |        |               |
|                                  |           | Inspecto     | or Comm  | nent          |        |               |
|                                  |           |              |          |               |        |               |
|                                  |           |              |          |               |        |               |
|                                  |           |              |          |               |        |               |
|                                  |           |              |          |               |        |               |



The building is within the easement of the levee.

| LM Start                         | 11.05 | Rating **    | A/W                    | Issue No.  | 22  |              |
|----------------------------------|-------|--------------|------------------------|------------|-----|--------------|
| LM End                           | 11.11 | Issue Type + | Ma                     | Location * | LS  |              |
| Category                         | evee  |              | GPS Latitude/Longitude |            |     |              |
| Calegory                         |       |              |                        | Start      |     | End          |
| Vegetation                       |       |              |                        | 38.8028    | 75° | 38.802000°   |
| Item                             |       |              |                        | -121.6328  | 62° | -121.632763° |
| DWR ID DWR_RD1001_04_s _ 2012_22 |       |              |                        |            |     |              |
|                                  |       |              | . ^                    |            |     |              |

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

### Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

No Photos

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 11.12     | Rating **      | A/W  | Issue No.              |     | 49          |  |
|----------|-----------|----------------|------|------------------------|-----|-------------|--|
| LM End   | 13.19     | Issue Type +   | Ob   | Location *             |     |             |  |
| Category |           |                |      | GPS Latitude/Longitude |     |             |  |
| Calegory | ategory   |                |      | Start                  |     | End         |  |
| Item     | 2017 Stor | m Damage       |      | 38.80186               | 2 ° | 38.781706   |  |
| пеш      |           |                |      | -121.63270             | 2 ° | -121.606869 |  |
| DWR ID   | DWR_RD1   | 001_04_f _ 201 | 7_49 |                        |     |             |  |
|          |           | _              |      |                        |     |             |  |

Comment Code

#### Inspector Comment

Levee Evaluation Comments

Description:Portions were temporarily repaired by DWR during 2017 flood fight. Permanent repairs are required through entire reach.

Estimated cost \$14.6 million

Site ID No:491

Site Designation:LMA-329 Repair Type: Seepage

Rating: Field Date: Notes:

| LM Start | 11.18   | Rating **      | М       | Issue No.              |     | 10          |   |  |
|----------|---------|----------------|---------|------------------------|-----|-------------|---|--|
| LM End   | 11.37   | Issue Type +   | Ma      | Location *             | WS  |             |   |  |
| Category |         |                |         | GPS Latitude/Longitude |     |             |   |  |
| Category |         |                |         | Start                  |     | End         |   |  |
| Item     |         | CE Erosion S   | Survey, | 38.8009                | 20° | 38.798165   | 0 |  |
| пеш      | DRAFT   |                |         | -121.6330              | 50° | -121.631939 | 0 |  |
| DWR ID   | DWR_RD1 | 001_04_f _ 201 | 8_10    |                        |     |             |   |  |

# Inspector Comment

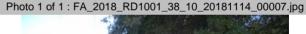
Comment Code

2017 Site ID: FHR 1.0 L

Status: Eroding

2017 Field Notes: Significant new erosion along lower bank.
Site History: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end. 2007 - Some minor new slumping at the waterline. 2013 - Minor new erosion along the bank toe.

No Photos





USACE 2013 Photo #1

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start     | 11.24                            | Rating **    | A/W | Issue No.   | lo. 23 |             |   |
|--------------|----------------------------------|--------------|-----|-------------|--------|-------------|---|
| LM End       | 11.24                            | Issue Type + | Ma  | Location *  | LS     |             |   |
| Category     | Catagon/ Earthen Levee           |              |     | GPS La      | atitud | e/Longitude |   |
| Calegory     | legory                           |              |     |             |        | End         |   |
| Item         | Vegetation                       |              |     | 38.8001     | 74°    | 38.800174   | 0 |
| item         |                                  | -121.6322    | 27° | -121.632227 | 0      |             |   |
| DWR ID       | DWR ID DWR_RD1001_04_s _ 2012_23 |              |     |             |        |             |   |
| Comment Code |                                  |              |     |             |        |             |   |
|              |                                  |              |     |             |        |             |   |

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

No Photos

No Photos

| LM Start | 11.28     | Rating **            | С                      | Issue No.  |               | 41          |
|----------|-----------|----------------------|------------------------|------------|---------------|-------------|
| LM End   | 11.28     | Issue Type +         | En                     | Location * |               | LS          |
| Category | Earthen L | evee                 | GPS Latitude/Longitude |            |               |             |
| Calegory |           |                      | Start                  |            | End           |             |
| Item     | Encroach  | ncroachments         |                        |            | 35°           | 38.799635 ° |
| пеш      |           |                      | -121.6319              | 86°        | -121.631986 ° |             |
| DWR ID   | DWR_RD1   | D1001_04_f _ 2015_41 |                        |            |               |             |

Comment Code

MA: Material

Inspector Comment

Removed pipe from levee toe, Fall 2018.

En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 11.28    | Rating **              | М          | Issue No.  |              | 158 |
|----------|----------|------------------------|------------|------------|--------------|-----|
| LM End   | 11.28    | Issue Type +           | En         | Location * |              |     |
| Category | Suppleme | GPS Latitude/Longitude |            |            |              |     |
| Calegory |          |                        |            |            |              | End |
| Item     | DWR UCI  | IP Field Study         | 38.79956   | 1°         | 38.799561 °  |     |
| пеш      |          |                        | -121.63196 | 4 °        | -121.631964° |     |
| DWR ID   | 22580    |                        |            |            |              |     |

# Inspector Comment

Comment Code

FS\_ID:14548 DS\_ID:22580 EP\_NO: 3489

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - siphon breaker on the landward shoulder not found.- cracked road surface along the pipe alienment.

Needs more investigations. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. 40-horsepower slant pump mounted on a steel structure on the riverbank. Pipe discharges into a 36-inch concrete standpipe at the landside (LS) toe. (Pipe and 40-horsepower pump authorized under Permit No. 3489, 1960 - Kirtland Brothers). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/16/2013

| LM Start | 11.28 | Rating **    | М  | Issue No.  | 158 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End   | 11.28 | Issue Type + | En | Location * |            |



WS- sland pump on river bank.



Levee Crown- surface crack along pipe crossing. Needs more investigation.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 11.28        | Rating **     | М        | Issue No.              |             | 158 (cont)   |
|----------|--------------|---------------|----------|------------------------|-------------|--------------|
| LM End   | 11.28        | Issue Type +  | En       | Location *             |             |              |
| Category | Supplemental |               |          | GPS Latitude/Longitude |             |              |
| Calegory |              |               |          |                        |             | End          |
| Item     | DWR UCI      | P Field Study | 38.79956 | 61 °                   | 38.799561 ° |              |
| пеш      |              |               |          |                        | 64°         | -121.631964° |
| DWR ID   | 22580        |               |          |                        |             |              |

# Inspector Comment

Comment Code

FS\_ID:14548 DS\_ID:22580 EP\_NO: 3489

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/16/2013 - siphon breaker on the landward shoulder not found.- cracked road surface along the pipe alienment.

Needs more investigations. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. 40-horsepower slant pump mounted on a steel structure on the riverbank. Pipe discharges into a 36-inch concrete standpipe at the landside (LS) toe. (Pipe and 40-horsepower pump authorized under Permit No. 3489, 1960 - Kirtland Brothers). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/16/2013



WS- slant pump, pipe on steel piles.

| LM Start | 11.59    | Rating **      | М                 | Issue No. 9            |    | 9             |
|----------|----------|----------------|-------------------|------------------------|----|---------------|
| LM End   | 11.75    | Issue Type +   | Ma                | Location *             | WS |               |
| Category | Suppleme | ental          |                   | GPS Latitude/Longitude |    |               |
| Calegory |          |                |                   | Start                  |    | End           |
| Item     |          | CE Erosion S   | E Erosion Survey, |                        | 5° | 38.793394°    |
| пеш      | DRAFT    |                |                   | -121.62990             | 3° | -121.628156 ° |
| DWR ID   | DWR_RD1  | 001_04_f _ 201 | 8_9               |                        |    |               |

# Comment Code

#### Inspector Comment

2017 Site ID: FHR 0.6 L

Status: Eroding

2017 Field Notes: Further toe erosion, with sections of sand deposition. Site History: 1997- Deposits over top of cobble on the upper slope. 2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion. 2012 - Minor new erosion at toe, new slumping, animals holes and cracks observed.

#### Photo 1 of 1 : FA\_2018\_RD1001\_38\_9\_20181114\_00002.jpg



USACE 2013 Photo #1

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start | 11.75                            | Rating **    | С      | Issue No.  |                        | 50            |  |
|----------|----------------------------------|--------------|--------|------------|------------------------|---------------|--|
| LM End   | 11.75                            | Issue Type + | Ма     | Location * |                        | WS            |  |
| Catagony | Category Earthen Levee           |              |        |            | GPS Latitude/Longitude |               |  |
| Calegory |                                  |              |        |            |                        | End           |  |
| Item     | Slope Sta                        | bility       | oility |            |                        | 38.793683 °   |  |
| пеш      |                                  |              |        | -121.62774 | l2°                    | -121.627742 ° |  |
| DWR ID   | DWR ID DWR_RD1001_04_f _ 2017_50 |              |        |            |                        |               |  |
|          |                                  | _            |        |            |                        |               |  |

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Damage caused by vehicles has been repaired, Fall 2018.

Photo 1 of 1 : FA\_2018\_RD1001\_38\_56\_20181114\_00087.jpg

No Photos



View of landside levee slope of rodent holes that need t be properly backfilled, Fall 2018.

Photo 1 of 1: FA\_2018\_RD1001\_38\_39\_20181114\_00088.jpg

| LM Start | 11.92                     | Rating **    | М                      | Issue No.  |     | 56           |
|----------|---------------------------|--------------|------------------------|------------|-----|--------------|
| LM End   | 11.92                     | Issue Type + | Ma                     | Location * |     | LS           |
| Category | Earthen L                 |              | GPS Latitude/Longitude |            |     |              |
| Calegory |                           |              |                        |            |     | End          |
| Item     | Animal Co                 | imal Control |                        |            | 96° | 38.791696°   |
| пеш      |                           |              |                        |            | 62° | -121.625862° |
| DWR ID   | DWR_RD1001_04_f _ 2018_56 |              |                        |            |     | ·            |

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

#### Inspector Comment

Rodent holes need to be properly backfilled, Fall 2018.

#### Rating \*\* Issue No. LM Start 12.20 39 Issue Type + Location \* WS 13.21 Ma LM End Earthen Levee GPS Latitude/Longitude Category End Vegetation 38.788492° 38.781446 Item -121.622835 ° -121.606547 ° DWR ID DWR\_RD1001\_04\_f \_ 2018\_39 Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

The annual vegetation is well maintained, Fall 2018.



View looking upstream waterside of the well maintained annual vegetation, Fall 2018.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start               | 12.32             | Rating **      | A/W       | Issue No.    |        | 24           |   |  |  |
|------------------------|-------------------|----------------|-----------|--------------|--------|--------------|---|--|--|
| LM End                 | 12.41             | Issue Type +   | Ma        | Location *   |        | LS           |   |  |  |
| Category Earthen Levee |                   |                |           | GPS La       | atitud | le/Longitude |   |  |  |
| Category               |                   |                |           | Start        |        | End          |   |  |  |
| Item                   | Vegetatio         | Vegetation     |           |              | 55°    | 38.786507    | 0 |  |  |
| пеш                    |                   |                |           | -121.621165° |        | -121.619837  | 0 |  |  |
| DWR ID                 | DWR_RD1           | 001_04_s _ 201 | 2_24      |              |        |              |   |  |  |
|                        |                   | Comn           | nent Cod  | de           |        |              |   |  |  |
| V4 : Elderk            | perries are       | blocking visib | ility and | flood fight  | capa   | ability.     |   |  |  |
|                        | Inspector Comment |                |           |              |        |              |   |  |  |
| Elderberrie<br>2018.   | es bush ha        | s been trimm   | ed for ac | cess and v   | isibil | ity, Spring  |   |  |  |

No Photos

Rating \*\* Issue No. 12.35 С LM Start 44 LM End 13.21 Issue Type + Ма Location \* LS Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 38.787132° 38.781444° Item -121.620587° -121.606549° DWR ID DWR\_RD1001\_04\_f \_ 2018\_44 Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

# Inspector Comment

The annual vegetation has been mowed in this section, Fall 2018.

No Photos

|   | 40.44     | Rating **      | N 4      | Issue No.     |        | F0           |  |  |
|---|-----------|----------------|----------|---------------|--------|--------------|--|--|
| LM Start                                    | 12.44     | Raung          | М        | issue ivo.    |        | 53           |  |  |
| LM End                                      | 12.44     | Issue Type +   | En       | Location *    |        | LS           |  |  |
| Category Earthen Levee                      |           |                |          | GPS La        | atitud | le/Longitude |  |  |
| Category                                    |           |                |          | Start         |        | End          |  |  |
| Item  | Encroachi | Encroachments  |          |               | 44 °   | 38.786444°   |  |  |
| Item  | item      |                |          | -121.619165 ° |        | -121.619165° |  |  |
| DWR ID                                      | DWR_RD1   | 001_04_s _ 201 | 8_53     |               |        |              |  |  |
|   |           | Comn           | nent Cod | de            |        |              |  |  |
| PR : Prunings                               |           |                |          |               |        |              |  |  |
| Inspector Comment                           |           |                |          |               |        |              |  |  |
| Remove pruning's from levee toe, Fall 2018. |           |                |          |               |        |              |  |  |



View looking at landside toe of pruning's on levee toe, Fall 2018.

Location + Issue Type Ma : Maintenance Deficiency LS: Land Side N/A: Not Applicable A : Acceptable M : Minimally Acceptable N: Not Inspected/Rated WS: Water Side C : Corrected Ob : Design & System Obsolescence A/W : Acceptable but Monitor & Maintain U : Unacceptable En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start               | 12.48                            | Rating **    | U        | Issue No.  |        | 25           |  |  |
|------------------------|----------------------------------|--------------|----------|------------|--------|--------------|--|--|
| LM End                 | 12.48                            | Issue Type + | En       | Location * |        | LS           |  |  |
| Category Earthen Levee |                                  |              |          | GPS La     | atitud | e/Longitude  |  |  |
| Category               |                                  |              |          | Start      |        | End          |  |  |
| Item                   | Encroachments                    |              |          | 38.7860    | 73°    | 38.786073°   |  |  |
| пеш                    | item                             |              |          |            | 22°    | -121.618522° |  |  |
| DWR ID                 | DWR ID DWR_RD1001_04_s _ 2012_25 |              |          |            |        |              |  |  |
|                        |                                  | Comn         | nent Cod | de         |        |              |  |  |
| BU : Buildi            | ng                               |              |          |            |        |              |  |  |
|                        |                                  |              |          |            |        |              |  |  |
| Inspector Comment      |                                  |              |          |            |        |              |  |  |
|                        |                                  |              |          |            |        |              |  |  |
|                        |                                  |              |          |            |        |              |  |  |
|                        |                                  |              |          |            |        |              |  |  |



Au unpermitted building is at the toe of the levee.

| LM Start               | 12.65      | Rating **      | A/W  | Issue No.              |      | 26           |
|------------------------|------------|----------------|------|------------------------|------|--------------|
| LM End                 | 13.14      | Issue Type +   | Ma   | Location *             |      | LS           |
| Catagoni Earthen Levee |            |                |      | GPS Latitude/Longitude |      |              |
| Calegory               | Category   |                |      | Start                  |      | End          |
| Item                   | Vegetation |                |      | 38.7845                | 13°  | 38.781862°   |
| пеш                    |            |                |      | -121.6160              | 45 ° | -121.607855° |
| DWR ID                 | DWR_RD1    | 001_04_s _ 201 | 2_26 |                        |      |              |

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

#### Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

No Photos

| LM Start               | 12.67     | Rating **      | A/W           | Issue No.              |             | 11        |   |
|------------------------|-----------|----------------|---------------|------------------------|-------------|-----------|---|
| LM End                 | 13.12     | Issue Type +   | Ma            | Location *             |             | WS        |   |
| Category Earthen Levee |           |                |               | GPS Latitude/Longitude |             |           |   |
| Calegory               |           |                |               | Start                  |             | End       |   |
| Item                   | Vegetatio | n              |               | 38.7845                | 79°         | 38.782150 | 0 |
| item                   |           |                | -121.615689 ° |                        | -121.607918 | 0         |   |
| DWR ID                 | DWR_RD1   | 001_04_f _ 201 | 3_11          |                        |             |           |   |

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

#### Inspector Comment

Elderberries bush has been trimmed for access and visibility, Spring 2018.

No Photos

\* Location LS : Land Side

N/A: Not Applicable

WS : Water Side

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence

En: Enforcement

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                  | Bank | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------|------|------------|--------------------------|------------------|
| Unit No. 04 Feather River | Left | 13.27      | 10/26/2018<br>10/26/2018 | Sterling<br>York |

| LM Start  | 12.82        | Rating **      | М        | Issue No.   |        | 151           |  |
|---|--------------|----------------|----------|-------------|--------|---------------|--|
| LM End  | 12.82        | Issue Type +   | Ма       | Location *  |        | WS            |  |
| Earthen Levee   |              |                |          | GPS La      | atitud | e/Longitude   |  |
| Category  |              |                |          | Start       |        | End           |  |
| Item  | Trim / Thi   | 38.7839        | 30°      | 38.783930°  |        |               |  |
| пеш   | em           |                |          |             | 52°    | -121.612952 ° |  |
| DWR ID  | DWR_RD1      | 001_04_s _ 201 | 2_151    |             |        |               |  |
|   |              | Comn           | nent Cod | de          |        |               |  |
| T1: Trim t  | rees to at I | east five feet | above g  | round level |        |               |  |
|   |              |                |          |             |        |               |  |
|   |              | Inspecto       | or Comm  | nent        |        |               |  |
| Trim tree limbs for access and visibility, Fall 2018. |              |                |          |             |        |               |  |
|   |              |                |          |             |        |               |  |
|   |              |                |          |             |        |               |  |



Trees need to be trimmed up at least 5 feet.

#### **Unit Cover Sheet**

Fall 2018 Levee Inspection Results

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles |
|---------------------------------|-------|------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       |

|                                     | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
|-------------------------------------|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) |                         |                           | M                              |                                 |
| Date of Inspection                  | 4/5/2018 - 4/5/2018     |                           | 10/9/2018 - 10/9/2018          |                                 |
| DWR Inspector                       | Sterling York           |                           | Sterling York                  |                                 |
| Accompanied By                      | Joe Henderson<br>RD1001 |                           | Joe Henderson<br>RD1001        |                                 |

#### **Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start               | 0.00                      | Rating **    | Α                      | Issue No.  |     | 12           |  |
|------------------------|---------------------------|--------------|------------------------|------------|-----|--------------|--|
| LM End                 | 5.38                      | Issue Type + | Ma                     | Location * | LS  |              |  |
| Category Earthen Levee |                           |              | GPS Latitude/Longitude |            |     |              |  |
| Calegory               |                           |              |                        | Start      |     | End          |  |
| Item                   | , Vegetation              |              |                        | 38.78123   | 1 ° | 38.831047°   |  |
| пеш                    |                           |              |                        | -121.60545 | o°  | -121.529827° |  |
| DWR ID                 | DWR_RD1001_05_f _ 2018_12 |              |                        |            |     |              |  |
|                        | Comment Code              |              |                        |            |     |              |  |

4 · Control consul managers and was do no the levels

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Fall 2018.

### Photo 1 of 1: FA\_2018\_RD1001\_39\_12\_20181114\_00019.jpg



View looking upstream landside at the well maintained annual vegetation, Fall 2018.

| LM Start               | 0.00                      | Rating **    | Α  | Issue No.              |     | 14           |  |
|------------------------|---------------------------|--------------|----|------------------------|-----|--------------|--|
| LM End                 | 5.38                      | Issue Type + | Ма | Location *             |     | WS           |  |
| Category Earthen Levee |                           |              |    | GPS Latitude/Longitude |     |              |  |
| Category               |                           |              |    | Start                  |     | End          |  |
| Item                   | Vegetatio                 | n            |    | 38.7812                | 31° | 38.831047°   |  |
| пеш                    |                           |              |    | -121.6054              | 50° | -121.529827° |  |
| DWR ID                 | DWR_RD1001_05_f _ 2018_14 |              |    |                        |     |              |  |
| Comment Code           |                           |              |    |                        |     |              |  |

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

The annual vegetation is well maintained, Fall 2018.

# Photo 1 of 1: FA\_2018\_RD1001\_39\_14\_20181114\_00021.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

Photo 1 of 1: FA\_2018\_RD1001\_39\_13\_20180918\_00006.jpg

| LM Start               | 0.05     | Rating **      | М                      | Issue No.  |     | 13           |
|------------------------|----------|----------------|------------------------|------------|-----|--------------|
| LM End                 | 0.05     | Issue Type +   | En                     | Location * |     | LS           |
| Category Earthen Levee |          |                | GPS Latitude/Longitude |            |     |              |
| Category               |          |                | Start                  |            | End |              |
| Item                   | Encroach | Encroachments  |                        |            | 1°  | 38.781881 °  |
| пеш                    |          |                |                        | -121.60521 | 5°  | -121.605215° |
| DWR ID                 | DWR_RD1  | 001_05_f _ 201 | 6_13                   |            |     | ·            |

BU : Building

#### Inspector Comment

Comment Code

House and carport are at landside levee toe.



View of a house and carport that are at the levee toe.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start               | 0.06  | Rating **      | М            | Issue No.  |              | 16         |  |
|------------------------|---|----------------|--------------|------------|--------------|------------|--|
| LM End                 | 0.06  | Issue Type +   | En           | Location * | LS           |            |  |
| Category Earthen Levee |   |                | GPS L        | atitud     | e/Longitude  |            |  |
|                        |   |                | Start        |            | End          |            |  |
| Item                   | Encroach  | ments          |              | 38.7819    | 99°          | 38.781999° |  |
| item                   |   |                | -121.605182° |            | -121.605182° |            |  |
| DWR ID                 | DWR_RD1   | 001_05_f _ 201 | 5_16         |            |              |            |  |
|                        |   | Comn           | nent Coc     | de         |              |            |  |
| RW : Reta              | ining Wall  |                |              |            |              |            |  |
|                        |   |                |              |            |              |            |  |
|                        | Inspector Comment   |                |              |            |              |            |  |
| Retaining              | Retaining wall is into the landside levee toe, it is part of the carport. |                |              |            |              |            |  |

No Photos

| LM Sta   | art          | 0.79     | Rating **      | M     | Issue No.  | 17     |             |   |  |
|----------|--------------|----------|----------------|-------|------------|--------|-------------|---|--|
| LM En    | nd           | 0.79     | Issue Type +   | En    | Location * |        |             |   |  |
| Category | orv.         | Suppleme | ental          |       | GPS La     | atitud | e/Longitude |   |  |
|          |              |          |                | Start |            | End    |             |   |  |
| Item     |              | DWR UCI  | IP Field Study |       | 38.7905    | 56°    | 38.790556   | ٥ |  |
| пеш      |              |          |                |       | -121.5974  | 77 °   | -121.597477 | ٥ |  |
| DWR      | ID           | 22610    |                |       |            |        |             |   |  |
|          | Comment Code |          |                |       |            |        |             |   |  |

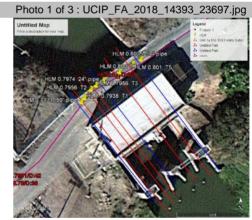
#### Inspector Comment

FS\_ID:14393 DS\_ID:22610 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair. (P. Amatya - DWR

FIELD\_STRUCT\_DESC: 5 of 8: 24-inch reinforced concrete drainage discharge pipe through the levee, 25 feet below the crown. Five 60-inch by 84-inch reinforced concrete drainage tunnels through the levee, 25 feet below the crown. One tunnel has a 60-inch pump installed inside and is gated on the waterside (WS) end. Two 50-inch steel drainage discharge pipes through the levee, 25 feet below the crown. All tunnels and pipes are gated. Concrete headwall and railing along the landside (LS). (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013



Location of pipes and tunnels. 24-inch steel pipe located at 5th from the

N/A: Not Applicable LS: Land Side WS: Water Side

: Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence

A/W : Acceptable but Monitor & Maintain En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 0.79   | Rating **      | М                      | Issue No.  |     | 17 (cont)    |  |
|----------|--------|----------------|------------------------|------------|-----|--------------|--|
| LM End   | 0.79   | Issue Type +   | En                     | Location * |     |              |  |
| Category |        |                | GPS Latitude/Longitude |            |     |              |  |
| Calegory |        |                |                        | Start      |     | End          |  |
| Item     | DWR UC | IP Field Study |                        | 38.79055   | 56° | 38.790556 °  |  |
| пеш      |        |                |                        | -121.59747 | 77° | -121.597477° |  |
| DWR ID   | 22610  |                |                        |            |     |              |  |

#### Inspector Comment

Comment Code

FS\_ID:14393 DS\_ID:22610 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair. (P. Amatya - DWR UCIP)

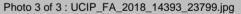
FIELD\_STRUCT\_DESC: 5 of 8: 24-inch reinforced concrete drainage discharge pipe through the levee, 25 feet below the crown. Five 60-inch by 84-inch reinforced concrete drainage tunnels through the levee, 25 feet below the crown. One tunnel has a 60-inch pump installed inside and is gated on the waterside (WS) end. Two 50-inch steel drainage discharge pipes through the levee, 25 feet below the crown. All tunnels and pipes are gated. Concrete headwall and railing along the landside (LS). (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993].

| LM Start | 0.79 | Rating **    | М  | Issue No.  | 17 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 0.79 | Issue Type + | En | Location * |           |

# Photo 2 of 3: UCIP\_FA\_2018\_14393\_23696.jpg



LS- Drainage structure with tunnels, pipes and pump house. Tunnel 1 at far right and tunnel 5 at far left. The pipe is located inside tunnel 3.





WS- three steel pipes inside tunnel. Fifty inch pipes on left and right. Twenty four inch pipe in middle of the structure as shown.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start     | 1.78          | Rating **      | М       | Issue No.  |           | 5           |   |
|--------------|---------------|----------------|---------|------------|-----------|-------------|---|
| LM End       | 1.85          | Issue Type +   | Ma      | Location * | WS        |             |   |
| Category     | Suppleme      | ental          |         | GPS La     | atitud    | e/Longitude |   |
| Calegory     |               |                |         | Start      |           | End         |   |
| Item         | ACE Erosion S | Survey,        | 38.7990 | 37°        | 38.799733 | 0           |   |
| пеш          | DRAFT         |                |         | -121.5827  | 06 °      | -121.581585 | 0 |
| DWR ID       | DWR_RD1       | 001_05_f _ 201 |         |            |           |             |   |
| Comment Code |               |                |         |            |           |             |   |

No Photos

Inspector Comment

2017 Site ID: NCC 1.9 L Status: Eroding New

2017 Field Notes: Erosion along mid bank and sections of slumped

bank. Site History:

| LM Start                        | 2.24                       | Rating **    | М                      | Issue No.  |      | 6            |  |
|---------------------------------|----------------------------|--------------|------------------------|------------|------|--------------|--|
| LM End                          | 2.34                       | Issue Type + | Ma                     | Location * | WS   |              |  |
| Category                        | Suppleme                   |              | GPS Latitude/Longitude |            |      |              |  |
| Calegory                        |                            |              |                        | Start      |      | End          |  |
| Item                            | 2017 USACE Erosion Survey, |              |                        | 38.8033    | 27°  | 38.804206°   |  |
| пеш                             | DRAFT                      |              |                        | -121.5759  | 93 ° | -121.574529° |  |
| DWR ID DWR_RD1001_05_f _ 2018_6 |                            |              |                        |            |      |              |  |
| Comment Code                    |                            |              |                        |            |      |              |  |

No Photos

Inspector Comment

2017 Site ID: NCC 2.4 R

Status: Eroding

2017 Field Notes: Site renamed, previously mislabeled as NCC 3.0.

Erosion along mid bank slope.

Site History: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.4. 2016 - Site extended downstream. Slumping of entire meiddle levee section.

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start     | 2.31                             | Rating **              | М       | Issue No.  |      | 11          |   |
|--------------|----------------------------------|------------------------|---------|------------|------|-------------|---|
| LM End       | 2.34                             | Issue Type +           | Ma      | Location * | WS   |             |   |
| Category     | ental                            | GPS Latitude/Longitude |         |            |      |             |   |
| Calegory     |                                  |                        |         | Start      |      | End         |   |
| Item         |                                  | ACE Erosion S          | Survey, | 38.8038    | 77 ° | 38.804206   | 0 |
| пеш          | DRAFT                            |                        |         | -121.5750  | 53 ° | -121.574529 | 0 |
| DWR ID       | DWR ID DWR_RD1001_05_f _ 2018_11 |                        |         |            |      |             |   |
| Comment Code |                                  |                        |         |            |      |             |   |

No Photos

Inspector Comment

2017 Site ID: NCC 3.0 R

Status: Eroding

2017 Field Notes: Site is part of the extended inventory, last inspected

2011.

Site History: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into

the top of the levee. This site is actually located at LM 2.5.

| LM Start                        | 2.68         | Rating **     | М       | Issue No.    |      | 9             |  |  |
|---------------------------------|--------------|---------------|---------|--------------|------|---------------|--|--|
| LM End                          | 3.13         | Issue Type +  | Ma      | Location *   | WS   |               |  |  |
| Category                        | ental        | GPS La        | titud   | le/Longitude |      |               |  |  |
| Calegory                        |              |               |         | Start        |      | End           |  |  |
| Item                            |              | ACE Erosion S | Survey, | 38.8071      | 80°  | 38.811122°    |  |  |
| пеш                             | DRAFT        |               |         | -121.5695    | 23 ° | -121.562873 ° |  |  |
| DWR ID DWR_RD1001_05_f _ 2018_9 |              |               |         |              |      |               |  |  |
|                                 | Comment Code |               |         |              |      |               |  |  |

No Photos

Inspector Comment

2017 Site ID: NCC 2.9 R Status: Eroding New

2017 Field Notes: Hummocky levee face, slumping upper bank.

Site History: 2016 - Slumping of upper bank slope.

LS : Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence

En: Enforcement

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                        | 3.56      | Rating **    | M             | Issue No.  |                  | 7           |  |  |
|---------------------------------|-----------|--------------|---------------|------------|------------------|-------------|--|--|
| LM End                          | 3.81      | Issue Type + | En            | Location * |                  | LS          |  |  |
| Category                        | Earthen L | evee         |               | GPS La     | atitud           | e/Longitude |  |  |
| Category                        |           |              |               | Start      |                  | End         |  |  |
| Item                            | Encroachi | ments        |               | 38.8149    | 19°              | 38.817178°  |  |  |
| пеш                             |           |              | -121.556712 ° |            | 12° -121.552965° |             |  |  |
| DWR ID DWR_RD1001_05_s _ 2012_7 |           |              |               |            |                  |             |  |  |
|                                 |           | Comn         | nent Cod      | de         |                  |             |  |  |
| PO : Pole                       |           |              |               |            |                  |             |  |  |
|                                 |           |              |               |            |                  |             |  |  |
|                                 |           | Inspecto     | or Comm       | nent       |                  |             |  |  |
|                                 |           |              |               |            |                  |             |  |  |
|                                 |           |              |               |            |                  |             |  |  |
|                                 |           |              |               |            |                  |             |  |  |
|                                 |           |              |               |            |                  |             |  |  |



View of poles on the landside shoulder looking downstream.

| LM Start  | 3.81                             | Rating **    | М  | Issue No.              |      | 10           |  |  |
|-----------|----------------------------------|--------------|----|------------------------|------|--------------|--|--|
| LM End    | 3.81                             | Issue Type + | En | Location *             |      | LS           |  |  |
| Category  | Earthen L                        | evee         |    | GPS Latitude/Longitude |      |              |  |  |
| Calegory  | Calegory                         |              |    |                        |      | End          |  |  |
| Item      | Encroachments                    |              |    |                        | 78°  | 38.817178 °  |  |  |
| пеш       |                                  |              |    | -121.5529              | 65 ° | -121.552965° |  |  |
| DWR ID    | DWR ID DWR_RD1001_05_s _ 2012_10 |              |    |                        |      |              |  |  |
|           | Comment Code                     |              |    |                        |      |              |  |  |
| TA · Tank | TA : Tank                        |              |    |                        |      |              |  |  |

TA: Tank

Inspector Comment

Fuel tank at landside levee toe.

# Photo 1 of 1 : FA\_2018\_RD1001\_39\_10\_20180918\_00005.jpg



View of poles on the landside shoulder looking downstream.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.81     | Rating **      | М  | Issue No.              |      | 18           |  |
|----------|----------|----------------|----|------------------------|------|--------------|--|
| LM End   | 3.81     | Issue Type +   | En | Location *             |      |              |  |
| Category |          |                |    | GPS Latitude/Longitude |      |              |  |
| Calegory | Category |                |    | Start                  |      | End          |  |
| Item     | DWR UCI  | IP Field Study |    | 38.8171                | 75 ° | 38.817175°   |  |
| пеш      |          |                |    | -121.5529              | 46 ° | -121.552946° |  |
| DWR ID   | 22604    |                |    |                        |      |              |  |

# Inspector Comment

Comment Code

FS\_ID:14486 DS\_ID:22604 EP\_NO: 1896

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey- abandoned steel pipe, may need to remove it or properly adandoned. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DEŚC: \*ABANDOŃED\* 1 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

| LM Start | 3.81 | Rating **    | М  | Issue No.  | 18 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 3.81 | Issue Type + | En | Location * |           |



WS- pump station, walkway, and slide gate in concrete box.

Photo 2 of 3: UCIP\_FA\_2018\_14486\_23912.jpg



WS- abandoned pipe adjacent to pump station on stream bank.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.81     | Rating **     | M  | Issue No.              |      | 18 (cont)     |
|----------|----------|---------------|----|------------------------|------|---------------|
| LM End   | 3.81     | Issue Type +  | En | Location *             |      |               |
| Category | Suppleme | ental         |    | GPS Latitude/Longitude |      |               |
| Calegory | Category |               |    | Start                  |      | End           |
| Item     | DWR UCI  | P Field Study |    | 38.8171                | 75°  | 38.817175°    |
| пеш      |          |               |    | -121.5529              | 46 ° | -121.552946 ° |
| DWR ID   | 22604    |               |    |                        |      |               |

# Inspector Comment

Comment Code

FS\_ID:14486 DS\_ID:22604 EP\_NO: 1896

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey- abandoned steel pipe, may need to remove it or properly adandoned. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 1 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013



WS- slide gate in concrete box on levee toe.

| LM Start | 3.81                                       | Rating **    | М   | Issue No.             |     | 19         |
|----------|--|--------------|-----|-----------------------|-----|------------|
| LM End   | 3.81                                       | Issue Type + | En  | Location *            |     |            |
| Category | Suppleme                                   | ental        |     | GPS Latitude/Longitud |     |            |
| Category |  |              |     | Start                 |     | End        |
| Item     | DWR UCIP Field Study                       |              |     |                       | 75° | 38.817175° |
| пеш      | DWR UCIP Field Study 38.817178 -121.552946 |              | 46° | -121.552946 °         |     |            |
| DWR ID   | 22595                                      |              |     |                       |     | ·          |

#### Comment Code

#### Inspector Comment

FS\_ID:14484 DS\_ID:22595 EP\_NO: 1896

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field

survey (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 2 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013



WS- overview of pump station, walkway, and slide gate in concrete box.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.81         | Rating **      | М                      | Issue No.  | 19 (cont) |               |  |
|----------|--------------|----------------|------------------------|------------|-----------|---------------|--|
| LM End   | 3.81         | Issue Type +   | En                     | Location * |           |               |  |
| Category | Suppleme     | ental          | GPS Latitude/Longitude |            |           |               |  |
| Category | Category     |                |                        | Start      |           | End           |  |
| Item     | DWR UC       | IP Field Study |                        | 38.81717   | 75 °      | 38.817175 °   |  |
| пеш      |              |                |                        | -121.55294 | 16°       | -121.552946 ° |  |
| DWR ID   | 22595        |                |                        |            |           |               |  |
|          | Comment Code |                |                        |            |           |               |  |

# Inspector Comment

FS\_ID:14484 DS\_ID:22595 EP\_NO: 1896

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field

survey (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 2 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

 LM Start
 3.81
 Rating \*\*
 M
 Issue No.
 19 (cont)

 LM End
 3.81
 Issue Type +
 En
 Location \*



WS- slide gate in concrete box on levee toe.

#### Photo 3 of 3: UCIP\_FA\_2018\_14484\_23897.jpg



LS- overview of irrigation ditch on levee toe (top)

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.81    | Rating **     | М       | Issue No.              | Issue No.  |              |  |
|----------|---------|---------------|---------|------------------------|------------|--------------|--|
| LM End   | 3.81    | Issue Type +  | En      | Location *             |            |              |  |
| Category |         |               |         | GPS Latitude/Longitude |            |              |  |
| Calegory |         |               |         | Start                  |            | End          |  |
| Item     | DWR UCI | P Field Study | 38.8171 | 75 °                   | 38.817175° |              |  |
| пеш      |         |               |         | -121.552946 °          |            | -121.552946° |  |
| DWR ID   | 22613   |               |         |                        |            |              |  |

#### Inspector Comment

Comment Code

FS\_ID:14472 DS\_ID:22613 EP\_NO: 1896

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field

survey (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 3 of 3: 30-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

| LM Start | 3.81 | Rating **    | М  | Issue No.  | 20 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 3.81 | Issue Type + | En | Location * |           |



WS- pump station, walkway, and slide gate in concrete box on levee toe

#### Photo 2 of 3: UCIP\_FA\_2018\_14472\_23890.jpg



WS- slide gate in concrete box on levee toe

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.81                 | Rating **    | М  | Issue No.              |     | 20 (cont)     |  |
|----------|----------------------|--------------|----|------------------------|-----|---------------|--|
| LM End   | 3.81                 | Issue Type + | En | Location *             |     |               |  |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |     |               |  |
| Calegory |                      |              |    | Start                  |     | End           |  |
| Item     | DWR UCIP Field Study |              |    | 38.8171                | 75° | 38.817175 °   |  |
| пеш      |                      |              |    | -121.5529              | 46° | -121.552946 ° |  |
| DWR ID   | 22613                |              |    |                        |     |               |  |

#### Inspector Comment

Comment Code

FS\_ID:14472 DS\_ID:22613 EP\_NO: 1896

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field

survey (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 3 of 3: 30-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]).

[Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013



LS- pipes discharge water in irrigation ditch on landside (top)

| LM Start | 5.05         | Rating **      | A/W                    | Issue No.  |      | 8             |  |
|----------|--------------|----------------|------------------------|------------|------|---------------|--|
| LM End   | 5.06         | Issue Type +   | Ma                     | Location * |      |               |  |
| Category | Suppleme     | ental          | GPS Latitude/Longitude |            |      |               |  |
| Calegory | Category     |                |                        | Start      |      | End           |  |
| Item     | 2017 Stor    | m Damage       |                        | 38.82810   | 00°  | 38.828188°    |  |
| пеш      |              |                |                        | -121.53474 | o Ol | -121.534625 ° |  |
| DWR ID   | DWR_RD1      | 001_05_f _ 201 | 7_8                    |            |      |               |  |
|          | Comment Code |                |                        |            |      |               |  |

Inspector Comment

Levee Evaluation Comments Description: Site ID No:493

Site Designation:RD 1001-03

Repair Type: Erosion Rating:Serious Field Date:7/17/2017

Notes: Serious per senior review

### Photo 1 of 3: LEVAL\_FA\_2018\_493\_1759.jpg



# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                        | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|---------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 05 Natomas Cross Canal | Right | 5.39       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 5.05                            | Rating **    | A/W                    | Issue No.  |    | 8 (cont)      |  |
|----------|---------------------------------|--------------|------------------------|------------|----|---------------|--|
| LM End   | 5.06                            | Issue Type + | Ma                     | Location * |    |               |  |
| Category | Suppleme                        | ental        | GPS Latitude/Longitude |            |    |               |  |
| Calegory |                                 |              | Sta                    |            |    | End           |  |
| Item     | 2017 Stor                       | m Damage     |                        | 38.82810   | 0° | 38.828188 °   |  |
| пеш      |                                 |              |                        | -121.53474 | 0° | -121.534625 ° |  |
| DWR ID   | DWR ID DWR_RD1001_05_f _ 2017_8 |              |                        |            |    |               |  |
|          | Comment Code                    |              |                        |            |    |               |  |

#### Inspector Comment

Levee Evaluation Comments

Description: Site ID No:493 Site Designation:RD 1001-03 Repair Type: Erosion

Rating:Serious Field Date:7/17/2017

Notes: Serious per senior review

| LM Start | 5.05 | Rating **    | A/W | Issue No.  | 8 (cont) |
|----------|------|--------------|-----|------------|----------|
| LM End   | 5.06 | Issue Type + | Ma  | Location * |          |



Photo 3 of 3: LEVAL\_FA\_2018\_493\_1763.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiency
Ob : Design & System Obsolescence En: Enforcement

#### **Unit Cover Sheet**

Fall 2018 Levee Inspection Results

# **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles |
|-----------------------------|-------|------------|
| Unit No. 06 East Side Canal | Right | 4.74       |

|                                     | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
|-------------------------------------|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) |                         |                           | Α                              |                                 |
| Date of Inspection                  | 4/5/2018 - 4/5/2018     |                           | 10/9/2018 - 10/9/2018          |                                 |
| DWR Inspector                       | Sterling York           |                           | Sterling York                  |                                 |
| Accompanied By                      | Joe Henderson<br>RD1001 |                           | Joe Henderson<br>RD1001        |                                 |

#### **Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                         | 0.00       | Rating **    | Α  | Issue No.              |    | 13            |  |  |
|----------------------------------|------------|--------------|----|------------------------|----|---------------|--|--|
| LM End                           | 4.73       | Issue Type + | Ma | Location *             | LS |               |  |  |
| Category Earthen Levee           |            |              |    | GPS Latitude/Longitude |    |               |  |  |
| Calegory                         |            |              |    | Start                  |    | End           |  |  |
| Item                             | Vegetation |              |    | 38.831102°             |    | 38.896349°    |  |  |
| item                             |            |              |    | -121.529733 °          |    | -121.520442 ° |  |  |
| DWR ID DWR_RD1001_06_f _ 2018_13 |            |              |    |                        |    |               |  |  |
| Comment Code                     |            |              |    |                        |    |               |  |  |

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

The annual vegetation is well maintained, Fall 2018.

Photo 1 of 1: FA\_2018\_RD1001\_40\_13\_20181114\_00036.jpg



View looking upstream landside at the well maintained annual vegetation, Fall 2018.

| 4.73                             |              |            |               |                        |               |  |  |
|----------------------------------|--------------|------------|---------------|------------------------|---------------|--|--|
| 7.73                             | Issue Type + | Ма         | Location *    | WS                     |               |  |  |
| Category Earthen Levee           |              |            |               | GPS Latitude/Longitude |               |  |  |
|                                  |              | Start      |               | End                    |               |  |  |
| Vegetation                       |              |            | 38.831102°    |                        | 38.896349°    |  |  |
|                                  |              |            | -121.529733 ° |                        | -121.520441 ° |  |  |
| DWR ID DWR_RD1001_06_f _ 2018_14 |              |            |               |                        |               |  |  |
| ,                                | egetatior/   | egetation/ | /egetation    | Start                  | Start         |  |  |

Comment Code
V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

The annual vegetation is well maintained, Fall 2018.

### Photo 1 of 1: FA\_2018\_RD1001\_40\_14\_20181114\_00037.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

| LM Start               | 0.02                      | Rating **    | М  | Issue No.              |     | 20           |  |
|------------------------|---------------------------|--------------|----|------------------------|-----|--------------|--|
| LM End                 | 0.43                      | Issue Type + | En | Location *             |     | LS           |  |
| Category Earthen Levee |                           |              |    | GPS Latitude/Longitude |     |              |  |
| Category               |                           |              |    | Start                  |     | End          |  |
| Item                   | Encroach                  | ments        |    | 38.8312                | 43° | 38.836832°   |  |
| пеш                    |                           |              |    | -121.529519°           |     | -121.526810° |  |
| DWR ID                 | DWR_RD1001_06_f _ 2016_20 |              |    |                        |     |              |  |
| Comment Code           |                           |              |    |                        |     |              |  |

#### FE : Fence

#### Inspector Comment

Fence along the landside levee toe.

#### Photo 1 of 1: FA\_2018\_RD1001\_40\_20\_20180918\_00006.jpg



View of fence along the landside levee toe looking upstream.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Otant   | 0.47      | Rating **    | U            | Issue No.  |              | 46          |  |  |
|--|-----------|--------------|--------------|------------|--------------|-------------|--|--|
| LM Start   | 0.47      | Rating       | U            | issue ivo. |              | 16          |  |  |
| LM End   | 0.47      | Issue Type + | En           | Location * | CR           |             |  |  |
| Category   | Earthen L | evee         |              | GPS La     | atitud       | e/Longitude |  |  |
| Category   |           |              | Start        |            | End          |             |  |  |
| Encroachments ltem   |           |              |              | 38.8373    | 66°          | 38.837366°  |  |  |
| пеш  |           |              | -121.526579° |            | -121.526579° |             |  |  |
| DWR ID DWR_RD1001_06_f _ 2018_16                               |           |              |              |            |              |             |  |  |
| Comment Code   |           |              |              |            |              |             |  |  |
| FE : Fence   | )         |              |              |            |              |             |  |  |
|  |           |              |              |            |              |             |  |  |
|  |           | Inspecto     | or Comm      | nent       |              |             |  |  |
| The solid fence needs to be removed from the crown, Fall 2018. |           |              |              |            |              |             |  |  |
|  |           |              |              |            |              |             |  |  |
|  |           |              |              |            |              |             |  |  |



View looking upstream waterside crown at an unpermitted solid fence, Fall 2018.

| LM Start  | 0.77                    | Rating **    | U        | Issue No.     |                        | 21            |  |  |  |
|---|-------------------------|--------------|----------|---------------|------------------------|---------------|--|--|--|
| LM End  | 0.85                    | Issue Type + | En       | Location *    |                        | LS            |  |  |  |
| Category  | Catagoria Earthen Levee |              |          |               | GPS Latitude/Longitude |               |  |  |  |
| Calegory  |                         |              |          | Start         |                        | End           |  |  |  |
| ltem Encroachments  |                         |              |          | 38.8415       | 22°                    | 38.842611 °   |  |  |  |
| item  |                         |              |          | -121.524833 ° |                        | -121.524533 ° |  |  |  |
| DWR ID DWR_RD1001_06_f _ 2018_21                                |                         |              |          |               |                        |               |  |  |  |
|   |                         | Comn         | nent Cod | de            |                        |               |  |  |  |
| MA : Mater  | rial                    |              |          |               |                        |               |  |  |  |
|   |                         |              | _        |               |                        |               |  |  |  |
| Inspector Comment   |                         |              |          |               |                        |               |  |  |  |
| Soil material piled on levee toe need to be removed, Fall 2018. |                         |              |          |               |                        |               |  |  |  |
|   |                         |              |          |               |                        |               |  |  |  |
|   |                         |              |          |               |                        |               |  |  |  |



View looking upstream landside where soil has been dumped on the levee toe, Fall 2018.

# **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start               | 0.95     | Rating **    | М  | Issue No.              | 46    |             |   |
|------------------------|----------|--------------|----|------------------------|-------|-------------|---|
| LM End                 | 0.95     | Issue Type + | En | Location *             | LS    |             |   |
| Category Earthen Levee |          |              |    | GPS Latitude/Longitude |       |             |   |
| Calegory               | Category |              |    |                        | Start |             |   |
| ltem Encroachments     |          |              |    | 38.8441                | 09°   | 38.844109   | 0 |
|                        |          |              |    | -121.5243              | 75 °  | -121.524375 | 0 |
| DWR ID                 | DWR_RD1  |              |    |                        |       |             |   |
| Comment Code           |          |              |    |                        |       |             |   |

TA : Tank

Inspector Comment

Propane tank is within the landside easement of the levee.



View of a propane tank that is within the landside easement of the levee.

| LM Start      | 1.45                     | Rating **    | М                      | Issue No.  |             | 3            |  |
|---------------|--------------------------|--------------|------------------------|------------|-------------|--------------|--|
| LM End        | 1.53                     | Issue Type + | En                     | Location * |             | LS           |  |
| Earthen Levee |                          |              | GPS Latitude/Longitude |            |             |              |  |
| Category      |                          |              |                        | Start      |             | End          |  |
| Encroachments |                          |              | 38.8512                | 34°        | 38.852445 ° |              |  |
| ICIII         |                          |              |                        | -121.5244  | 21 °        | -121.524809° |  |
| DWR ID        | DWR_RD1001_06_s _ 2012_3 |              |                        |            |             |              |  |

Comment Code

EQ: Equipment

Inspector Comment

Remove equipment from levee toe.

# Photo 1 of 1 : FA\_2018\_RD1001\_40\_3\_20180918\_00001.jpg



View looking upstream of the equipment at the landside levee toe.

# Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start             | 1.72     | Rating **    | М                      | Issue No.  |            | 47            |
|----------------------|----------|--------------|------------------------|------------|------------|---------------|
| LM End               | 1.72     | Issue Type + | En                     | Location * |            |               |
| Supplemental         |          |              | GPS Latitude/Longitude |            |            |               |
| Calegory             | Category |              |                        |            |            | End           |
| DWR UCIP Field Study |          |              | 38.85518               | 36°        | 38.855186° |               |
| пеш                  |          |              |                        | -121.52489 | 95 °       | -121.524895 ° |
| DWR ID               | 22617    |              |                        |            |            | ·             |

# Inspector Comment

Comment Code

FS\_ID:14244 DS\_ID:22617 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - visible damage to pipe on opening at inlet due to high corrosion.- video inspection recommended. (P.

Amatva - DWR UCIP)

FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

| LM Start | 1.72 | Rating **    | М  | Issue No.  | 47 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 1.72 | Issue Type + | En | Location * |           |

# Photo 1 of 3: UCIP\_FA\_2018\_14244\_23467.jpg



WS- slide gate in CMP riser on levee slope.

### Photo 2 of 3: UCIP\_FA\_2018\_14244\_23466.jpg



WS- slide gate, air vent pipe in CMP riser on levee slope.

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 1.72     | Rating **     | М  | Issue No.  |     | 47 (cont)     |
|----------|----------|---------------|----|------------|-----|---------------|
| LM End   | 1.72     | Issue Type +  | En | Location * |     |               |
| Category | Suppleme | ental         |    | GPS Lat    | tud | e/Longitude   |
| Category | egory    |               |    |            |     | End           |
| Item     | DWR UC   | P Field Study |    | 38.85518   | 3°  | 38.855186 °   |
| пеш      |          |               |    | -121.52489 | 5 ° | -121.524895 ° |
| DWR ID   | 22617    |               |    |            |     |               |

# Inspector Comment

Comment Code

FS\_ID:14244 DS\_ID:22617 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - visible damage to pipe on opening at inlet due to high corrosion.- video inspection recommended. (P.

Amatva - DWR UCIP)

FIELĎ\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013



| LM Start | 2.03                   | Rating **      | М  | Issue No.  |     | 48          |   |
|----------|------------------------|----------------|----|------------|-----|-------------|---|
| LM End   | 2.03                   | Issue Type +   | En | Location * |     |             |   |
| Category | GPS Latitude/Longitude |                |    |            |     |             |   |
| Calegory |                        |                |    | Start      |     | End         |   |
| Item     | DWR UC                 | IP Field Study |    | 38.8596    | 01° | 38.859601   | 0 |
| пеш      |                        |                |    | -121.5248  | 85° | -121.524885 | 0 |
| DWR ID   | 22616                  |                |    |            |     |             |   |

## Comment Code

#### Inspector Comment

FS\_ID:14223 DS\_ID:22616 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - pipe burried/submerged on LS- needs

cleaning of LS pipe end opening. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15.5 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

#### Photo 1 of 3: UCIP\_FA\_2018\_14223\_23445.jpg



WS- slide gate in CMP riser on levee slope.

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start     | 2.03    | Rating **     | М  | Issue No.              |      | 48 (cont)     |
|--------------|---------|---------------|----|------------------------|------|---------------|
| LM End       | 2.03    | Issue Type +  | En | Location *             |      |               |
| Supplemental |         |               |    | GPS Latitude/Longitude |      |               |
| Category     | alegory |               |    |                        |      | End           |
| Item         | DWR UCI | P Field Study |    | 38.85960               | )1 ° | 38.859601 °   |
| пеш          |         |               |    | -121.52488             | 35 ° | -121.524885 ° |
| DWR ID       | 22616   |               |    |                        |      | ·             |

## Inspector Comment

Comment Code

FS\_ID:14223 DS\_ID:22616 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - pipe burried/submerged on LS- needs

cleaning of LS pipe end opening. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15.5 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

| LM Start | 2.03 | Rating **    | М  | Issue No.  | 48 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 2.03 | Issue Type + | En | Location * |           |



LS- concrete wing wall on levee toe

Photo 3 of 3: UCIP\_FA\_2018\_14223\_23443.jpg



LS- pipe submerged/burried in concrete wing wall on levee toe

## **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start   | 2.05       | Rating **      | A/W      | Issue No.     | 8      |              |  |
|--|------------|----------------|----------|---------------|--------|--------------|--|
| LM End   | 2.05       | Issue Type +   | Ma       | Location *    | CR     |              |  |
| Category   | Earthen L  | evee           |          | GPS La        | atitud | e/Longitude  |  |
| Calegory   |            |                |          | Start         |        | End          |  |
| Item   | Crown Su   | rface / Depres | ssions / | 38.8600       | 002°   | 38.860002°   |  |
| пеш  | Rutting    |                |          | -121.524873 ° |        | -121.524873° |  |
| DWR ID   | DWR_RD1    | 001_06_s _ 201 | 12_8     |               |        |              |  |
|  |            | Comn           | nent Cod | de            |        |              |  |
| C2 : Repai   | r depressi | ons or ruts in | the crow | n or slope.   |        |              |  |
|  |            |                |          |               |        |              |  |
| Inspector Comment  |            |                |          |               |        |              |  |
| Crown where there is cross traffic. Monitor this area and fix as needed. |            |                |          |               |        |              |  |
|  |            |                |          |               |        |              |  |



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start     | 2.29                   | Rating **     | U  | Issue No.  | 49   |               |  |
|--------------|------------------------|---------------|----|------------|------|---------------|--|
| LM End       | 2.29                   | Issue Type +  | En | Location * |      |               |  |
| Category     | GPS Latitude/Longitude |               |    |            |      |               |  |
| Calegory     | alegory                |               |    |            |      | End           |  |
| Item         | DWR UC                 | P Field Study |    | 38.86338   | 35 ° | 38.863385°    |  |
| пеш          |                        |               |    | -121.52486 | 66°  | -121.524866 ° |  |
| DWR ID 22622 |                        |               |    |            |      |               |  |
| Comment Code |                        |               |    |            |      |               |  |

#### Inspector Comment

FS\_ID:53424 DS\_ID:22622 EP\_NO: 12208 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/18/2018 Same as previous inspection. No documentation is available to determine if there is a pipe integrity issue. Recommend internal inspection of the pipe through the levee to determine the condition of the pipe. Need to contact owner to obtain details of WS repair. Levee is about 8-10 feet high. Crossing remains Urgent due to the unknown reason for WS hole observed in the 2013 inspection (pipe repair or pipe leakage). (O. Magana - DWR UCIP)07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR)

FIELD\_STRUCT\_DESC: 16-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the waterside (WS) pump. Standpipe off the LS toe. Pipe used seasonally only in the absence of groundwater, as per District President Joe Henderson. (16-inch irrigation pipe and 16-inch low-lift pump authorized under Permit No. 12208, 1977 - Thomas A. Cuguet). [Additional Reference(s): DWR Levee Log. 1993].

FS Date: 10/18/2018

Photo 1 of 3: UCIP\_FA\_2018\_53424\_23429.jpg



WS- large depression on levee berm

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start     | 2.29     | Rating **              | U  | Issue No.  | e No. 49 (cont) |               |  |
|--------------|----------|------------------------|----|------------|-----------------|---------------|--|
| LM End       | 2.29     | Issue Type +           | En | Location * |                 |               |  |
| Category     | ental    | GPS Latitude/Longitude |    |            |                 |               |  |
| Category     | Zategory |                        |    |            |                 | End           |  |
| Item         | DWR UC   | P Field Study          |    | 38.86338   | 5°              | 38.863385°    |  |
| пеш          |          |                        |    | -121.52486 | 6°              | -121.524866 ° |  |
| DWR ID 22622 |          |                        |    |            |                 |               |  |
| Comment Code |          |                        |    |            |                 |               |  |

#### Inspector Comment

FS\_ID:53424 DS\_ID:22622 EP\_NO: 12208 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/18/2018 Same as previous inspection. No documentation is available to determine if there is a pipe integrity issue. Recommend internal inspection of the pipe through the levee to determine the condition of the pipe. Need to contact owner to obtain details of WS repair. Levee is about 8-10 feet high. Crossing remains Urgent due to the unknown reason for WS hole observed in the 2013 inspection (pipe repair or pipe leakage). (O. Magana - DWR UCIP)07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR)

FIELD\_STRUCT\_DESC: 16-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the waterside (WS) pump. Standpipe off the LS toe. Pipe used seasonally only in the absence of groundwater, as per District President Joe Henderson. (16-inch irrigation pipe and 16-inch low-lift pump authorized under Permit No. 12208, 1977 - Thomas A. Cuguet). [Additional Reference(s): DWR Levee Log. 1993].

FS Date: 10/18/2018

Photo 2 of 3 : UCIP\_FA\_2018\_53424\_23427.jpg



WS- pump and pipe on river bank

## Levee Inspection Report By Mile - Fall 2018

#### **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 2.29     | Rating **     | U     | Issue No.  | 49 (cont) |               |
|----------|----------|---------------|-------|------------|-----------|---------------|
| LM End   | 2.29     | Issue Type +  | En    | Location * |           |               |
| Category | Suppleme | ental         |       | GPS Lat    | tud       | e/Longitude   |
| Category |          |               | Start |            | End       |               |
| Item     | DWR UCI  | P Field Study |       | 38.86338   | 5 °       | 38.863385°    |
| пеш      |          |               |       | -121.52486 | 3°        | -121.524866 ° |
| DWR ID   | 22622    |               |       |            |           | ·             |

#### Inspector Comment

Comment Code

FS\_ID:53424 DS\_ID:22622 EP\_NO: 12208 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/18/2018 Same as previous inspection. No documentation is available to determine if there is a pipe integrity issue. Recommend internal inspection of the pipe through the levee to determine the condition of the pipe. Need to contact owner to obtain details of WS repair. Levee is about 8-10 feet high. Crossing remains Urgent due to the unknown reason for WS hole observed in the 2013 inspection (pipe repair or pipe leakage). (O. Magana - DWR UCIP)07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR)

FIELD\_STRUCT\_DESC: 16-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the waterside (WS) pump. Standpipe off the LS toe. Pipe used seasonally only in the absence of groundwater, as per District President Joe Henderson. (16-inch irrigation pipe and 16-inch low-lift pump authorized under Permit No. 12208, 1977 - Thomas A. Cuguet). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 10/18/2018

Photo 3 of 3: UCIP\_FA\_2018\_53424\_23426.jpg



WS- large depression on levee berm at pipe daylight

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start              | 3.03    | Rating **     | М  | Issue No.              |     | 50           |
|-----------------------|---------|---------------|----|------------------------|-----|--------------|
| LM End                | 3.03    | Issue Type +  | En | Location *             |     |              |
| Category Supplemental |         |               |    | GPS Latitude/Longitude |     |              |
| Calegory              |         |               |    | Start                  |     | End          |
| Item                  | DWR UCI | P Field Study |    | 38.8742                | 17° | 38.874217°   |
| пеш                   |         |               |    | -121.5248              | 07° | -121.524807° |
| DWR ID                | 22629   |               |    |                        |     |              |

# Inspector Comment

Comment Code

FS\_ID:41674 DS\_ID:22629 EP\_NO: 2768

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 Pipe appears abandoned and if so should be done so properly.- Pipe capped on waterside.- a concrete pipe support saddle found on waterside levee slope.- also, an abandoned pipe found on landside levee slope. (P. Amatya - DWR

FIELD\_STRUCT\_DESC: 14-inch steel irrigation discharge pipe through the levee, 1.3 feet below the crown. Pump on the waterside (WS) toe removed. Gate valve on the WS slope removed. Pipe exposed on both slopes. Pipe discharges into a culvert on the landside (LS) toe which traverses under Pacific Avenue. (Removal and replacement of pump authorized under Permit No. 2768, 1958 - George N. Darrach). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013

| LM | Start | 3.03 | Rating **    | М  | Issue No.  | 50 (cont) |
|----|-------|------|--------------|----|------------|-----------|
| LN | 1 End | 3.03 | Issue Type + | En | Location * |           |



WS- an abandoned pipe on levee slope

#### Photo 2 of 3: UCIP\_FA\_2018\_41674\_23381.jpg



WS- an abandoned end capped pipe on levee slope

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.03     | Rating **     | М     | Issue No.  |       | 50 (cont)    |
|----------|----------|---------------|-------|------------|-------|--------------|
| LM End   | 3.03     | Issue Type +  | En    | Location * |       |              |
| Category | Suppleme | ental         |       | GPS La     | titud | e/Longitude  |
| Category |          |               | Start |            | End   |              |
| Item     | DWR UCI  | P Field Study |       | 38.8742    | 17°   | 38.874217°   |
| пеш      |          |               |       | -121.52480 | )7°   | -121.524807° |
| DWR ID   | 22629    |               |       |            |       |              |

Comment Code

Inspector Comment

FS\_ID:41674 DS\_ID:22629 EP\_NO: 2768

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 Pipe appears abandoned and if so should be done so properly.- Pipe capped on waterside.- a concrete pipe support saddle found on waterside levee slope.- also, an abandoned pipe found on landside levee slope. (P. Amatya - DWR

FIELD\_STRUCT\_DESC: 14-inch steel irrigation discharge pipe through the levee, 1.3 feet below the crown. Pump on the waterside (WS) toe removed. Gate valve on the WS slope removed. Pipe exposed on both slopes. Pipe discharges into a culvert on the landside (LS) toe which traverses under Pacific Avenue. (Removal and replacement of pump authorized under Permit No. 2768, 1958 - George N. Darrach). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

Photo 3 of 3: UCIP\_FA\_2018\_41674\_23380.jpg



WS- concrete pipe support saddle.

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start              | 3.28    | Rating **     | М  | Issue No.  |       | 51            |
|-----------------------|---------|---------------|----|------------|-------|---------------|
| LM End                | 3.28    | Issue Type +  | En | Location * |       |               |
| Category Supplemental |         |               |    | GPS La     | titud | e/Longitude   |
| Calegory              |         |               |    | Start      |       | End           |
| Item                  | DWR UCI | P Field Study |    | 38.87770   | )6°   | 38.877706°    |
| пеш                   |         |               |    | -121.52478 | 37°   | -121.524787 ° |
| DWR ID                | 22630   |               |    |            |       |               |

# Inspector Comment

Comment Code

FS\_ID:14167 DS\_ID:22630 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - pipe opens in irrigation ditch on landside.- vegetation cleaning on LS pipe opening. (P. Amatya - DWR

UCIP)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

| LM Start | 3.28 | Rating **    | М  | Issue No.  | 51 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 3.28 | Issue Type + | En | Location * |           |



LS- vegetation on CMP end.

## Photo 2 of 3: UCIP\_FA\_2018\_14167\_23395.jpg



LS- CMP opens in irrigation ditch.

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.28     | Rating **      | М  | Issue No.  | 51 (cont) |             |   |
|----------|----------|----------------|----|------------|-----------|-------------|---|
| LM End   | 3.28     | Issue Type +   | En | Location * |           |             |   |
| Category | Suppleme | ental          |    | GPS La     | titud     | e/Longitude |   |
| Calegory |          |                |    | Start      |           | End         |   |
| Itom     | DWR UCI  | IP Field Study |    | 38.87770   | 6°        | 38.877706   | 0 |
| Item     |          |                |    | -121.52478 | 7°        | -121.524787 | 0 |
| DWR ID   | 22630    |                |    |            |           |             |   |

# Comment Code

#### Inspector Comment

FS ID:14167 DS\_ID:22630 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - pipe opens in irrigation ditch on landside.- vegetation cleaning on LS pipe opening. (P. Amatya - DWR

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013



WS- slide gate in CMP riser on levee slope

| LM Start | 3.43     | Rating **      | М  | Issue No.  |        | 52          |   |
|----------|----------|----------------|----|------------|--------|-------------|---|
| LM End   | 3.43     | Issue Type +   | En | Location * |        |             |   |
| Category | Suppleme | ental          |    | GPS La     | atitud | e/Longitude |   |
| Calegory |          |                |    | Start      |        | End         |   |
| Item     | DWR UC   | IP Field Study |    | 38.8799    | 60°    | 38.879960   | 0 |
| item     |          |                |    | -121.5247  | 80°    | -121.524780 | 0 |
| DWR ID   | 22619    |                |    |            |        |             |   |

#### Inspector Comment

Comment Code

FS\_ID:13523 DS ID:22619 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - needs filling/plugging gap between 4-

inch and 10-inch pipes. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 1 of 2: Capped 4-inch steel irrigation pipe sleeved through a 10-inch steel pipe, at an unknown depth. Pipe exposed just off the top of the waterside (WS) slope. [Additional

Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013



WS- a 4-inch steel pipe sleeved through 10-inch steel pipe.

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.43     | Rating **      | М  | Issue No.  |     | 52 (cont)   |   |
|----------|----------|----------------|----|------------|-----|-------------|---|
| LM End   | 3.43     | Issue Type +   | En | Location * |     |             |   |
| Category | Suppleme | ental          |    | GPS Lat    | tud | e/Longitude |   |
| Category |          |                |    | Start      |     | End         |   |
| Item     | DWR UCI  | IP Field Study |    | 38.87996   | o°  | 38.879960   | ٥ |
| пеш      |          |                |    | -121.52478 | o°  | -121.524780 | ٥ |
| DWR ID   | 22619    |                |    |            |     |             |   |

#### Inspector Comment

Comment Code

FS ID:13523 DS\_ID:22619 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - needs filling/plugging gap between 4-

inch and 10-inch pipes. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 1 of 2: Capped 4-inch steel irrigation pipe sleeved through a 10-inch steel pipe, at an unknown depth. Pipe exposed just off the top of the waterside (WS) slope. [Additional

Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013



WS- gap between two pipes needs to be filled.

| LM Start | 3.59     | Rating **      | M  | Issue No.  |       | 53            |
|----------|----------|----------------|----|------------|-------|---------------|
| LM End   | 3.59     | Issue Type +   | En | Location * |       |               |
| Category | Suppleme | ental          |    | GPS La     | titud | e/Longitude   |
| Category |          |                |    | Start      |       | End           |
| Item     | DWR UC   | IP Field Study |    | 38.8822    | 47°   | 38.882247°    |
| item     |          |                |    | -121.5247  | 62°   | -121.524762 ° |
| DWR ID   | 22631    |                |    |            |       |               |

#### Inspector Comment

Comment Code

FS\_ID:13509 DS\_ID:22631 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 Only a small section of head wall visible.

almost burried. (P. Amatya - DWR UCIP)
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

# Photo 1 of 2: UCIP\_FA\_2018\_13509\_22086.jpg



WS- fixed slide gate in CMP riser on levee slope.

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.59     | Rating **     | М  | Issue No.  |       | 53 (cont)   |   |
|----------|----------|---------------|----|------------|-------|-------------|---|
| LM End   | 3.59     | Issue Type +  | En | Location * |       |             |   |
| Category | Suppleme | ental         |    | GPS La     | titud | e/Longitude |   |
| Calegory |          |               |    | Start      |       | End         |   |
| Item     | DWR UCI  | P Field Study |    | 38.88224   | 47 °  | 38.882247   | 0 |
| пеш      |          |               |    | -121.52470 | 62°   | -121.524762 | ٥ |
| DWR ID   | 22631    |               |    |            |       |             |   |

# Inspector Comment

Comment Code

FS\_ID:13509 DS\_ID:22631 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 Only a small section of head wall visible,

almost burried. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013



LS- almost burried concrete headwall. Only upper portion of the wall is visible.

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.92     | Rating **     | U     | Issue No.   |      | 54            |
|----------|----------|---------------|-------|-------------|------|---------------|
| LM End   | 3.92     | Issue Type +  | En    | Location *  |      |               |
| Category | Suppleme | GPS La        | titud | e/Longitude |      |               |
| Category |          |               |       |             |      | End           |
| Item     | DWR UCI  | P Field Study |       | 38.88700    | )3 ° | 38.887003 °   |
| пеш      |          |               |       | -121.52474  | 16°  | -121.524746 ° |
| DWR ID   | 22632    |               |       |             |      |               |

#### Inspector Comment

Comment Code

FS ID:53425 DS\_ID:22632 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/30/2018 Photos of the pipe failure, visible from the LS inlet, were uploaded. Crossing remains Urgent due to the deteriorated condition of the pipe. Recommend internal inspection through the levee. (O. Magana - DWR UCIP)10/18/2018 Unable to access the LS toe due to muddy conditions. Assume no repairs have been done to this crossing to date. This crossing is part of DWR's Deferred Maintenance Project (DMP). Based on the photos taken in 2013 and 2016 the pipe section through the wall has missing pipe sections due to heavy corrosion. Recommend repair to avoid further deterioration of pipe section through levee. Levee is about 8-10 feet high. Crossing remains Urgent based on the deteriorated condition of the pipe on the LS. (O. Magana - DWR UCIP)07/13/2016 Same condition as last. Pipe heavily corroded and partially filled with debris and straw. (K. Fazel - UCIP) 05/15/2013:- mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. (P. Amatya - DWR)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 10/19/2018 8:02:00 AM

| LM Start | 3.92 | Rating **    | U  | Issue No.  | 54 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 3.92 | Issue Type + | En | Location * |           |





WS- slide gate, air vent in CMP riser on levee slope

Photo 2 of 3: UCIP FA 2018 53425 22045.jpg



LS- CMP in concrete head/wing wall outlet

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 3.92     | Rating **     | U                | Issue No.  |    | 54 (cont)     |
|----------|----------|---------------|------------------|------------|----|---------------|
| LM End   | 3.92     | Issue Type +  | En               | Location * |    |               |
| Category | Suppleme | ental         | GPS Latitude/Lon |            |    | e/Longitude   |
| Calegory |          |               |                  | Start      |    | End           |
| Item     | DWR UCI  | P Field Study |                  | 38.88700   | 3° | 38.887003°    |
| пеш      |          |               |                  | -121.52474 | 6° | -121.524746 ° |
| DWR ID   | 22632    |               |                  |            |    |               |

# Inspector Comment

Comment Code

FS\_ID:53425 DS\_ID:22632 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/30/2018 Photos of the pipe failure, visible from the LS inlet, were uploaded. Crossing remains Urgent due to the deteriorated condition of the pipe. Recommend internal inspection through the levee. (O. Magana - DWR UCIP)10/18/2018 Unable to access the LS toe due to muddy conditions. Assume no repairs have been done to this crossing to date. This crossing is part of DWR's Deferred Maintenance Project (DMP). Based on the photos taken in 2013 and 2016 the pipe section through the wall has missing pipe sections due to heavy corrosion. Recommend repair to avoid further deterioration of pipe section through levee. Levee is about 8-10 feet high. Crossing remains Urgent based on the deteriorated condition of the pipe on the LS. (O. Magana - DWR UCIP)07/13/2016 Same condition as last. Pipe heavily corroded and partially filled with debris and straw. (K. Fazel - UCIP) 05/15/2013:- mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. (P. Amatya - DWR)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 10/19/2018 8:02:00 AM

## Photo 3 of 3: UCIP\_FA\_2018\_53425\_22044.jpg



LS- highly corroded and damaged CMP in concrete head/wing wall outlet

## **Levee Inspection Report By Mile - Fall 2018**

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                        | 4.04         | Rating **      | A/W      | Issue No.   | 7   |              |  |  |  |
|---------------------------------|--------------|----------------|----------|-------------|-----|--------------|--|--|--|
| LM End                          | 4.04         | Issue Type +   | Ma       | Location *  | CR  |              |  |  |  |
| Category                        | evee         | GPS La         | atitud   | e/Longitude |     |              |  |  |  |
| Calegory                        | Category     |                |          |             |     | End          |  |  |  |
| Item                            |              | rface / Depres | ssions / | 38.888      | 03° | 38.888803°   |  |  |  |
| пеш                             | Rutting      |                |          | -121.5247   | 38° | -121.524738° |  |  |  |
| DWR ID DWR_RD1001_06_s _ 2012_7 |              |                |          |             |     |              |  |  |  |
|                                 | Comment Code |                |          |             |     |              |  |  |  |

C2 : Repair depressions or ruts in the crown or slope.

#### Inspector Comment

Crown where there is cross traffic. Monitor this area and fix as needed.



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

Photo 1 of 1: FA\_2018\_RD1001\_40\_19\_20180918\_00005.jpg

| LM Start   | 4.33      | Rating **      | A/W      | Issue No.  |        | 19           |  |  |  |
|--|-----------|----------------|----------|------------|--------|--------------|--|--|--|
| LM End   | 4.33      | Issue Type +   | Ma       | Location * | CR     |              |  |  |  |
| Category   | Earthen L | evee           |          | GPS La     | atitud | e/Longitude  |  |  |  |
| Calegory   | Category  |                |          |            |        | End          |  |  |  |
| Item   |           | rface / Depres | ssions / | 38.8929    | 99°    | 38.892999°   |  |  |  |
| item   | Rutting   |                |          | -121.5247  | 11 °   | -121.524711° |  |  |  |
| DWR ID   | DWR_RD1   | 001_06_f _ 201 | 3_19     |            |        | ·            |  |  |  |
|  |           | Comn           | nent Coo | le         |        |              |  |  |  |
| C2 : Repair depressions or ruts in the crown or slope. |           |                |          |            |        |              |  |  |  |
|  |           |                |          |            |        |              |  |  |  |
|  |           | ent            |          |            |        |              |  |  |  |

#### Inspector Comment

Crown where there is cross traffic. Monitor this area and fix as needed.



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

10/27/2017

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 4.36         | Rating **     | М  | Issue No.  | 55                     |              |  |
|----------|--------------|---------------|----|------------|------------------------|--------------|--|
| LM End   | 4.36         | Issue Type +  | En | Location * |                        |              |  |
| Category | Supplemental |               |    |            | GPS Latitude/Longitude |              |  |
| Calegory |              |               |    | Start      |                        | End          |  |
| Item     | DWR UCI      | P Field Study |    | 38.89344   | 8 °                    | 38.893448 °  |  |
| пеш      |              |               |    | -121.52471 | 9°                     | -121.524719° |  |
| DWR ID   | 22618        |               |    |            |                        | ·            |  |

## Inspector Comment

Comment Code

FS\_ID:41724 DS\_ID:22618 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - damaged head/wing wall in inlet

structure. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 30-inch corrugated metal gravity irrigation pipe through the levee, 15.9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterward slope. Pipe discharges into a large irrigation ditch on the west side of Pacific Avenue. (Joplin and South Sutter Water District). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

| LM Start | 4.36 | Rating **    | М  | Issue No.  | 55 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End   | 4.36 | Issue Type + | En | Location * |           |

# Photo 1 of 3: UCIP\_FA\_2018\_41724\_22034.jpg



WS- slide gate in CMP riser.

#### Photo 2 of 3: UCIP\_FA\_2018\_41724\_22033.jpg



WS- inlet wing wall with trashrack

## Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start | 4.36    | Rating **              | М  | Issue No.  |      | 55 (cont)    |
|----------|---------|------------------------|----|------------|------|--------------|
| LM End   | 4.36    | Issue Type +           | En | Location * |      |              |
| Category | ental   | GPS Latitude/Longitude |    |            |      |              |
| Calegory |         |                        |    | Start      |      | End          |
| Item     | DWR UCI | P Field Study          |    | 38.8934    | 48 ° | 38.893448°   |
| пеш      |         |                        |    | -121.5247  | 19°  | -121.524719° |
| DWR ID   | 22618   |                        |    |            |      |              |

## Inspector Comment

Comment Code

FS\_ID:41724 DS\_ID:22618 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/15/2013 - damaged head/wing wall in inlet

structure. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 30-inch corrugated metal gravity irrigation pipe through the levee, 15.9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterward slope. Pipe discharges into a large irrigation ditch on the west side of Pacific Avenue. (Joplin and South Sutter Water District). [Additional

Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013



WS- inlet pipe with trashrack in a damaged wing wall

|              | LM Start | 4.38       | Rating **      | С                    | Issue No. |        | 22           |   |  |
|--------------|----------|------------|----------------|----------------------|-----------|--------|--------------|---|--|
|              | LM End   | 4.38       | Issue Type +   | Type + Ma Location * |           | LS     |              |   |  |
|              | Category | Earthen L  | evee           |                      | GPS La    | atitud | le/Longitude |   |  |
|              | Calegory |            |                |                      | Start     |        | End          |   |  |
|              | Item     | Trim / Thi | n Trees        |                      | 38.8937   | 28°    | 38.893728    | 0 |  |
|              | item     |            |                |                      | -121.5247 | 15°    | -121.524715  | 0 |  |
|              | DWR ID   | DWR_RD1    | 001_06_f _ 201 | 6_22                 |           |        |              |   |  |
| Comment Code |          |            |                |                      |           |        |              |   |  |

T5: Tree stumps.

#### Inspector Comment

A stump at the landside levee toe has been removed, Fall 2018.

No Photos

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

## **Levee Inspection Report By Mile - Fall 2018**

# **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

| LM Start                         | 4.48         | Rating **              | М  | Issue No.  | e No. 17 |              |  |  |  |
|----------------------------------|--------------|------------------------|----|------------|----------|--------------|--|--|--|
| LM End                           | 4.48         | Issue Type +           | Ma | Location * |          | LS           |  |  |  |
| Category                         | evee         | GPS Latitude/Longitude |    |            |          |              |  |  |  |
| Calegory                         |              |                        |    | Start      |          | End          |  |  |  |
| Item                             | Trim / Thi   | n Trees                |    | 38.8952    | 34 °     | 38.895234°   |  |  |  |
| пеш                              |              |                        |    | -121.5245  | 14°      | -121.524514° |  |  |  |
| DWR ID DWR_RD1001_06_f _ 2017_17 |              |                        |    |            |          |              |  |  |  |
|                                  | Comment Code |                        |    |            |          |              |  |  |  |

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

Trim tree limbs for access and visibility, Fall 2018.

Photo 1 of 1: FA\_2018\_RD1001\_40\_17\_20180918\_00004.jpg



View looking upstream landside at trees that need to be trimmed for access and visibility.

| LM Start  | 4.71          | Rating **    | М  | Issue No.              | 24 |              |  |  |
|---|---------------|--------------|----|------------------------|----|--------------|--|--|
| LM End  | 4.71          | Issue Type + | Ма | Location *             |    | LS           |  |  |
| Category  | Earthen Levee |              |    | GPS Latitude/Longitude |    |              |  |  |
|   |               |              |    | Start                  |    | End          |  |  |
| Item  | Encroachments |              |    | 38.896310°             |    | 38.896310°   |  |  |
|   |               |              |    | -121.520674°           |    | -121.520674° |  |  |
| DWR ID DWR_RD1001_06_f _ 2016_24                                  |               |              |    |                        |    |              |  |  |
| Comment Code  |               |              |    |                        |    |              |  |  |
| DE : Debris   |               |              |    |                        |    |              |  |  |
|   |               |              |    |                        |    |              |  |  |
| Inspector Comment   |               |              |    |                        |    |              |  |  |
| Old peace of pipe still lying on landside levee slope, Fall 2018. |               |              |    |                        |    |              |  |  |
|   |               |              |    |                        |    |              |  |  |
|   |               |              |    |                        |    |              |  |  |

| LM Start | t <b>4.71</b> Ratin |              | М  | Issue No.  | 24 (cont) |
|----------|---------------------|--------------|----|------------|-----------|
| LM End   | 4.71                | Issue Type + | Ma | Location * | LS        |

# Photo 1 of 2: FA\_2018\_RD1001\_40\_24\_20181114\_00041.jpg



View of an old peace of pipe still lying on landside levee slope looking downstream. Fall 2018.

Photo 2 of 2: FA\_2018\_RD1001\_40\_24\_20180918\_00008.jpg



View of an old peace of pipe lying on landside levee slope looking upstream. Fall 2017.

| * Location   | ** Rating  |   | + Issue Type   |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

## Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 1001 Nicolaus**

| Waterway                    | Bank  | Unit Miles | Inspection<br>Start/End  | Inspector        |
|-----------------------------|-------|------------|--------------------------|------------------|
| Unit No. 06 East Side Canal | Right | 4.74       | 10/09/2018<br>10/09/2018 | Sterling<br>York |

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency

Ob : Design & System Obsolescence
En : Enforcement